



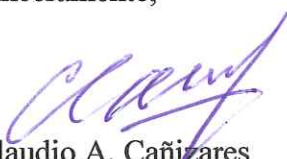
Abril 14, 2005

A quien le pueda interesar:

Por la presente certifico que el programa PSAT esta siendo utilizado en los cursos de postgrado ECE664 "Power System Computer Applications" y ECE6601PD "Power System Modeling and Stability Analysis" del Departamento de Ingeniería Eléctrica y Computación (E&CE) de la Universidad de Waterloo, de los cuales yo soy el Instructor principal. El programa esta también siendo utilizado por varios de mis estudiantes de doctorado como una herramienta de investigación.

PSAT es un programa ideal para la enseñanza y la investigación, muy bien diseñado y con una gran variedad opciones de análisis que no se encuentra en ningún otro programa similar, además de ser gratuito. El Prof. Federico Milano ha hecho un gran trabajo en el desarrollo de este programa, por lo que la comunidad científica en al área de Sistemas de Potencia está muy agradecida. Mis más sinceras felicitaciones al Dr. Milano por su excelente trabajo y gran generosidad.

Sinceramente,



Claudio A. Cañizares
Professor



Guatemala, May 18 2005.

FACULTAD DE INGENIERIA


To whom it may concern:

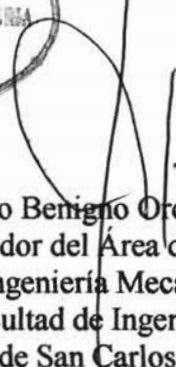
By this means the School of Electric Mechanical Engineering of the Faculty of Engineering of the *Universidad de San Carlos de Guatemala* recognizes that the program PSAT is being used in the courses of *Licenciatura en Ingeniería Eléctrica* in the Power Engineering Area, particularly in the laboratory of the course *Análisis de Sistemas de Potencia I*. The program has also been used and it's currently being used by several students for the development of their graduation projects.

PSAT is an ideal program for teaching and research, it's very well designed and with a great variety analysis options that are not available in any other similar program, besides being of free. Dr. Federico Milano has made a great effort in the development of this program, and so the scientific community in the Power Systems area it's very grateful. We send our best congratulations to Dr. Federico Milano for his excellent work and great generosity.

Sincerely,




Dr. Enrique Edmundo Ruiz Carballo
Director
Escuela de Ingeniería Mecánica Eléctrica
Facultad de Ingeniería
Universidad de San Carlos de Guatemala


Ing. Gustavo Benigno Orozco Godínez
Coordinador del Área de Potencia
Escuela de Ingeniería Mecánica Eléctrica
Facultad de Ingeniería
Universidad de San Carlos de Guatemala



Universidad Mariano Gálvez de Guatemala

3a. Avenida 9-00 Zona 2, 01002 Interior Finca El Zapote
Guatemala, Guatemala, C.A.
Apartado Postal 1811
PBX. (502) 22891421 FAX: (502) 22884040

FACULTAD DE
INGENIERÍA EN SISTEMAS
DE INFORMACIÓN

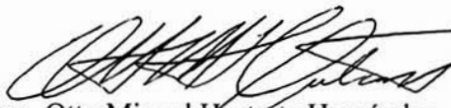
Guatemala, May 20 2005.

To whom it may concern:

By this means the Electronics' Engineering Career of the Faculty of Engineering in Information Sciences of the *Universidad Mariano Gálvez de Guatemala* recognizes that the program PSAT is being used in the courses of *Licenciatura en Ingeniería Electrónica* in the Control Engineering Area, particularly in the courses of the course *Sistemas de Control 1, Sistemas de Control 2* and *Seminario*. The program will be used by several students for the development of their graduation projects.

PSAT is an ideal program for teaching and research, it's very well designed and with a great variety analysis options that are not available in any other similar program, besides being of free. Dr. Federico Milano has made a great effort in the development of this program, and so the professors in the control area very grateful. We send our best congratulations to Dr. Federico Milano for his excellent work and great generosity.

Sincerely,


Ing. Otto Miguel Hurtarte Hernández
Coordinador

Carrera de Ingeniería Electrónica
Facultad de Ingeniería en Sistemas de Información
Universidad Mariano Gálvez de Guatemala





UNIVERSITY OF CAMPINAS – UNICAMP

SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING – FEEC

UNICAMP POWER SYSTEMS DEPARTMENT – DSEE

Prof. Dr. Carlos A. Castro Jr.
DSEE/FEEC/UNICAMP
C.P. 6101
13081-970 Campinas SP Brasil

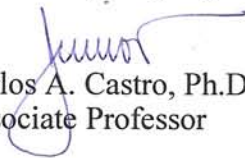
Voice: +55 19 3788 3732 / +55 19 3788 3708
Fax: +55 19 3289 1395
Email: ccastro@ieee.org
Web: <http://www.dsee.fee.unicamp.br/~ccastro>

Campinas, June 13, 2005.

To whom it may concern

As the Chair of the Power Systems Department of the University of Campinas, Brazil, I certify that the software Power Systems Analysis Toolbox (PSAT), developed by Prof. Dr. Federico Milano, has been used by our graduate students as a computational tool to develop research projects and to solve assigned homeworks in our graduate courses.

PSAT is a very useful software package for teaching and investigation purposes, covering a wide range of power systems related topics. It is well elaborated and documented. I take this opportunity to congratulate Prof. Milano for his initiative of distributing his program to the international scientific community.


Carlos A. Castro, Ph.D.
Associate Professor



Universidad Centroamericana

José Simeón Cañas

Departamento de Ciencias Energéticas y Fluídicas

Apartado Postal (01) 168 - San Salvador, El Salvador. C. A. Teléfono (503) 2210 6662, Fax (503) 2210 6664.

San Salvador, 29 de julio de 2005

A quien interese:

Dada la dinámica del sector eléctrico en El Salvador, el tema del Análisis de Sistemas de Potencia se considera como una de las áreas de mayor relevancia en la docencia e investigación desarrollada por este departamento. A la fecha para la formación de los estudiantes de ingeniería eléctrica se imparten dos cursos de Análisis de Sistemas de Potencia y el curso "Tópicos de Mercados Eléctricos". Algunos trabajos de investigación, orientados a describir el sistema eléctrico nacional, combinan ya ambos fundamentos.

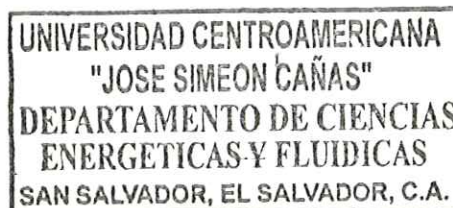
Para una adecuada enseñanza de las asignaturas mencionadas y desarrollar una investigación efectiva en esta temática se hace indispensable contar con herramientas computacionales accesibles, amigables en su uso y con la variedad de opciones de análisis que los sistemas de potencia requieren. Esta universidad ha encontrado en el software **Power System Análisis Toolkit (PSAT)** desarrollado por el Profesor Federico Milano una herramienta extremadamente valiosa para los fines indicados.

El uso del PSAT para el estudio del despacho económico, programación horaria de carga, elementos de seguridad, estabilidad de los sistemas de potencia, para mencionar algunos, es verdaderamente útil.

Felicitamos al Profesor Federico Milano por haber desarrollado tan útil herramienta y aprovechamos para agradecerle el haber aceptado venir a esta universidad a impartir el curso de educación continua **Análisis de Sistemas de Potencia en Ambiente de Mercados Eléctricos**.

Nos sentimos muy honrados con su presencia.

Ing. Ismael Antonio Sánchez
Jefe de Departamento





Tunis, September 17th, 2005

To whom it may concern

As the scientific manager of the Research Unit « Electrical Machines and Power Systems » at National Institute of Applied Sciences and Technology (INSAT), University 7 November, Tunis, Tunisia:

I certify that the software Power Systems Analysis Toolbox (PSAT) developed by Prof. Dr. Federico Milano, is used in my Laboratory as a computational tool for various topics (pedagogic works, developments of Master Projects and Thesis Diploma).

I also certify that PSAT generates accurate and precious results for a wide range of power systems related topics. The documentation of PSAT and the integrated examples are well structured and very useful for users.

I congratulate Prof. Federico Milan for his very great effort in developing PSAT and for his initiative of distributing it to international community.

*Dhifaoui Rachid
Professor in Electrical Engineering
INSAT, Tunisia*



UNIVERSITY OF MARYLAND

GLENN L. MARTIN INSTITUTE OF TECHNOLOGY
A. JAMES CLARK SCHOOL OF ENGINEERING

Institute for Systems Research

Office of the Director, Dr. Eyad H. Abed

Room 2173 A.V. Williams Building (115)
College Park, Maryland 20742
301.405.3631 TEL 301.314.9920 FAX
<http://www.isr.umd.edu>
abed@isr.umd.edu

October 4, 2005

To Whom It May Concern:

I am writing to attest to the fact that the software package Power System Analysis Toolbox (PSAT), which was developed by Professor Dr. Federico Milano, has been and continues to be very useful to my research group in our analysis of nonlinear power system models. My graduate students and post-doctoral researchers have employed this tool in a study aimed at characterizing signatures that can be detected prior to instability in an electric power system.

We have been very fortunate to learn of this package, which has had a major impact on our work. I am very grateful to Prof. Milano for his initiative in developing this important and user-friendly tool for the power system research community, and for making it widely available.

Any assistance that can be provided to Prof. Milano in supporting the continuation of his research and development in this field would be greatly appreciated.

With my best regards,

A handwritten signature in black ink, appearing to read 'Eyad H. Abed', written in a cursive style.

Dr. Eyad H. Abed
Professor and Director, Institute for Systems Research
and Professor, Electrical and Computer Engineering

UNSW@ADFA

CANBERRA • AUSTRALIA

School of Information Technology
and Electrical Engineering

Dr. Federico Milano, Assistant Professor
Electrical Engineering Department,
Univ. Castilla - La Mancha,
Campus Universitario, s/n,
13071 Ciudad Real, Spain

Dear Professor Milano,

The PSAT toolbox for Matlab is a wonderful tool for the research and teaching purposes in our School.

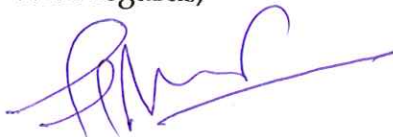
I had been thinking of introducing advanced power system analysis to students for a few years now. To do a meaningful analysis we explored special purpose commercial software but the learning curve for students was too steep. Our students will not be able to spend more than ten hours doing the software related power systems exercises. We were stuck till I found out about PSAT. This toolbox can be easily used by the students since they are very familiar with the Matlab environment. We thank you for giving us a chance to enhance our teaching capabilities.

Our research in power systems includes FACTS devices. The incorporation of these devices in PSAT has given us a great ease in simulating the performance of our designed controllers.

Finally, your documentation is excellent. I personally learnt a few things about FACTS devices which I couldn't understand from research papers and books.

I hope you continue the development and maintenance of this software.

With regards,



Hemanshu R Pota
Associate Professor of Electrical Engineering





Ministério da Educação
UNIVERSIDADE FEDERAL DE ITAJUBÁ
Criada pela Lei 10.435 de 24 de abril de 2002
Instituto de Sistemas Elétricos e Energia

To whom it may concern:

As a Research Assistant - PhD Student in the School of Electrical and Computer Engineering at Federal University of Itajubá, Brazil I certify that software Power Systems Analysis Toolbox (PSAT), developed by Prof. Federico Milano, have used by graduate students as a computational tool to develop research projects.

PSAT is an ideal program for teaching and research, it's very well designed and with a great variety analysis options that are not available in any other similar program, besides being of free. Dr. Federico Milano has made a great effort in the development of this program, and so the scientific community in the Power Systems area it's very grateful. I send my best congratulations to Dr. Federico Milano for his excellent work and great generosity.

Sincerely,

Clodomiro Unsihuay Vila
Research Assistant - PhD Student
School of Electrical and Computer Engineering
Federal University of Itajubá, Brazil

October 25 2005

To Whom It May Concern:

It is a great pleasure for me to write this recommendation letter for PSAT, a MATLAB-based power system analysis software developed by Professor Federico Milano. The main activity in our division is to develop commercial software for Chinese power industry. PSAT is a very useful tool for us. It has provided an excellent platform to test our prototype design work, which saves a lot of time-consuming Fortran programming efforts. We also use PSAT to train newcomers in our division. With its open code and elaborated documentation, PSAT helps them to become experienced software developers very quickly.

I take this opportunity to thank Professor Milano for his initiatives of opening the source code of PSAT. Any assistance for the continued development of PSAT will be highly appreciated.

With best regards,



Changan Ji
Director
Stability Technology Division
Nanjing Automation Research Institute
8 Nan Rui Road
Nanjing, Jiangsu 210003
P. R. China



EPSM, Energy,
School of Environment, Resources and
Development,
Asian Institute of technology,
P. O. Box 4, Klongluang,
Pathumthani 12120
Thailand

N. Mithulananthan, Ph.D. (Waterloo), MIEEE
Assistant Professor,

Tel. 66-2-524-5405, 66-2-524-5437
Fax. 66-2-542-5439, 66-2-524-6589
e-mail: mithulan@ait.ac.th, mithulan@ieee.org

10th November 2005

Letter of Recommendation

We have been using the PSAT analytical software tool in Electric Power System Management (EPSM) area of specialization in energy filed of study at Asian Institute of Technology (AIT) since 2003. AIT as you may know, an international post graduate institution with over a couple of thousand students from fifty countries enrolled as of today.

PSAT has been developed by Dr. Milano. He made it available free for research community in the electric power system engineering filed. As a faculty and researcher working little over a decade in the area of power system, I find PSAT is a very useful tool. The interesting feature of the tool is that it has different modules that could be used for various types of analytical studies. Moreover, all FACTS controllers that are currently available are incorporated in PSAT with their appropriate models.

I hope Dr. Milano would be getting the necessary support to continue his support to research community in power system engineering by providing updates and guides to the PSAT.

Yours truly,

(N. Mithulananthan)



KOCAELİ ÜNİVERSİTESİ
MÜHENDİSLİK FAKÜLTESİ
Elektrik Mühendisliği

Kocaeli Üniversitesi
Veziroğlu Kampüsü
Elektrik Mühendisliği
Bölümü
41050
KOCAELİ/TURKIYE
<http://mf.kou.edu.tr>

November 24, 2005

Dr. Federico Milano, Assistant Professor
Electrical Engineering Department,
Univ. Castilla - La Mancha,
Campus Universitario, s/n,
13071 Ciudad Real, Spain

Dear Professor Milano,

The PSAT toolbox is a very useful tool for the research and teaching purposes in our Electrical Engineering Department. We enhance our power system analysis studies with this software. Its graphical user interface is another asset. Our research in power systems also includes FACTS devices and PSAT has given us a considerable ease in simulating the performance of the systems. The documentation is also quite sufficient to understand power system analysis. We congratulate Prof. Milano for his initiative in developing this important tool for the power system research community, and for making it widely available.

Any assistance that can be provided to Prof. Milano in supporting the continuation of his research and development in this field would be greatly appreciated.

With my best regards,

Prof. Dr. Semra OZTURK
Kocaeli University
Chairman of the Electrical Engineering Department



UNIVERSITÀ DEGLI STUDI DI GENOVA
DIPARTIMENTO DI INGEGNERIA ELETTRICA

Laboratorio di Progettazione Assistita da Calcolatore di Dispositivi Elettromagnetici

11a, Via Opera Pia
I - 16145 Genova (GE)

Prof. Paola Girdinio

Genoa, 7 dicembre 2005

TO WHOM IT MAY CONCERN:

I would like to attest that the software package Power System Analysis Toolbox (PSAT), developed by Prof. Federico Milano for a Matlab environment, has been very useful to my students for the development of thesis and for research activity in the area of nonlinear power system modelling.

Recently an undergraduate student of mine has employed very effectively this tool in a study of electrical protection systems of a new nuclear power station located in Romania.

In the context of this activity, Prof. Milano gave significant assistance and helpful suggestions for the solution of several specific problems encountered by the student in this activity.

We hope that Prof. Milano will continue to develop his useful tool and we look forward to continuing to cooperate with him for research and development activities in the field.

Sincerely,

Prof. Paola Girdinio



**CENTRO DE INVESTIGACIONES
ELÉCTRICAS - ELECTRÓNICAS DEL PERÚ**

Diciembre 22, 2005

A quien corresponda.

Por la presente certifico que el programa PSAT, esta siendo utilizado como una herramienta de investigación en las áreas de sistemas eléctricos de potencia, por parte de los investigadores del Centro de Investigaciones Eléctricas - Electrónicas del Perú CIEEP.

PSAT, es un Software de Ingeniería Eléctrica ideal para investigación e instrucción, es dotado de herramientas muy útiles que cubren distintas áreas de la ingeniería de potencia, que permite optar por esta herramienta en ves de programas comerciales que hace prácticamente lo mismo.

Aprovecho además para agradecer y felicitarle sinceramente al Doctor Milano por la eficiente contribución a la ingeniería eléctrica, que día a día beneficia a gran cantidad de usuarios en el mundo y adicionalmente asistidos por el mismo Doctor y sus colaboradores mediante el PSAT Forum en grupos de yahoo.

Mis más sinceros reconocimientos y que sigan los éxitos.

Muy atte.

Braulio Chuco P.
Coordinador de Investigación



DEPARTMENT OF ELECTRICAL ENGINEERING
Indian Institute of Technology Kanpur
Kanpur-208016 (U.P.), India

Dr. S.N. Singh, Ph.D.
Associate Professor

Tel: +91-512-2597009 (O), 2598509 (R)
Fax: +91-512-2590065/2590063
Email: snsingh@iitk.ac.in
URL: <http://home.iitk.ac.in/~snsingh>

Dr. Federico Milano, Assistant Professor
Electrical Engineering Department,
Univ. Castilla - La Mancha,
Campus Universitario, s/n,
13071 Ciudad Real, Spain.

December 26, 2005

Dear Professor Milano,

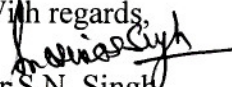
I am pleased to inform you that the software package Power System Analysis Toolbox (PSAT) for Matlab developed by you is very good tool and widely used for the research and teaching purposes. This toolbox is easily used by the students since they are very familiar with the Matlab environment. We thank you for giving us a chance to enhance our teaching and research capabilities. We have been very fortunate to learn of this package, which has had a major impact on our work.

Our research in power systems includes FACTS devices and wind power. The incorporation of these in PSAT has given us a great ease in simulating the performance of our designed controllers. Finally your documentation is excellent. I personally learnt a few things about power system modeling which I couldn't understand from research papers and books.

I am very grateful to Prof. Milano for his initiative in developing this important and user-friendly tool for the power system research community, and for making it widely available. Any assistance that can be provided to Prof. Milano in supporting the continuation of his research and development in this field would be greatly appreciated.

I hope you continue the development and maintenance of this software.

With regards,


Dr S.N. Singh



COPPE Coordenação dos Programas de Pós-Graduação de Engenharia
Universidade Federal do Rio de Janeiro

January 12, 2006


To Whom it may concern

I certify that the software Power System Analysis Toolbox (PSAT), developed by Prof. Federico Milano, is being used by one of my Ph.D. students (Amélia Yukie Takahata) as a computational tool to develop her thesis. The focus of the thesis is the analysis of small-signal stability considering uncertainties. So, the modal analysis contained in PSAT has been very useful in her research.

I take this opportunity to congratulate Prof. Milano for his initiative of distributing his well-documented and comprehensive program worldwide.

Sincerely,

Glauco N. Taranto, Ph.D.
Associate Professor
Federal University of Rio de Janeiro
Brazil

 **PROF. GLAUCO-NERY TARANTO**
PEE - COPPE/UFRI
REGISTRO Nº 014999-9



Dr. G.K. Singh
B.Tech., Ph.D., C.Engg., MIE, MISCEE
Professor

DEPARTMENT OF ELECTRICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Roorkee - 247 667, Uttarakhand, India
Phone : +91-1332-285070 (O), 277861, 285139 (R)
Fax : +91-1332-273560
e-mail : gksngfee@iitr.ernet.in

February 21, 2006

To Whom It May Concern

My graduate students and I had the wonderful opportunity of using PSAT toolbox for MATLAB developed by Prof. F. Milano. We found it to be an excellent value-added addition to the widely used MATLAB platform. It has opened up new vistas of learning and research in the area of Power System Engineering. This toolbox is being used extensively by us for class room and research related problems. We are immensely impressed by PSAT's capabilities.

My students and I are grateful to Prof. F. Milano for developing such a useful and powerful public domain toolbox. We wish him great success in his selfless endeavor.

Any assistance that can be provided to Prof. Milano for his continued efforts in improving, expanding and enhancing the capabilities of PSAT for the benefit of entire Power System fraternity would be greatly appreciated.

With best regards,

G. K. Singh



یونیورسیتی کبڠسان ملیسیا
UNIVERSITI KEBANGSAAN MALAYSIA

DEPARTMENT OF ELECTRICAL, ELECTRONICS AND SYSTEMS ENGINEERING
FACULTY OF ENGINEERING

13 Sept 2006

TO WHOM IT MAY CONCERN

As the head of Department of Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia, I would like to inform that the Software Package Power System Analysis Toolbox PSAT developed by Prof. Dr. Federico Milano has been very useful to my student for use in research as a software tool in running power flow and contingency analyses.

PSAT is very well designed, documented and developed. With that, my student and I would like to take this opportunity to congratulate Prof. Federico Milano for his initiative in distributing his well-documented and comprehensive program worldwide.

Thank you

Yours Truly,


Prof. Dr. Azah Mohamed
Head of Department

Dear Dr Milano,

The development of flexible free software is important in the context of the changes in power system structures, and the advent of technologies like FACTS and PMU. In this context, I happened to access your PSAT software a few months back.

I think that a software like PSAT is a stupendous effort.

PSAT contains all tools for LF, OPF, CPF, time-domain simulation-large signal stability and small signal stability, FACTS and HVDC systems and PMU placement. It is an effort to be further consolidated and carried forward.

Congratulations to you for putting together a fine tool.

Best Regards

A.M.Kulkarni

Associate Professor
Department of Electrical Engg.
Indian Institute of Technology, Bombay,
Powai, Mumbai 400 076
INDIA
Phone: (+91)-22 2576 7416 (off)
(+91)-22 2576 8416 (res)

Fax : (+91)-22 2572-3707

email: anil@ee.iitb.ac.in



Ljubljana, November 15, 2006

To whom it may concern:

As an assistant professor at the Power Systems and Devices Department at Faculty of Electrical Engineering, University of Ljubljana, Slovenia, I herewith certify that PSAT, a Matlab-based power system analysis software developed by Prof. Dr. Federico Milano, is used at our department for research and teaching purposes.

We find PSAT very well suited for teaching purposes as the students are mostly familiar with Matlab environment so they can fully concentrate on power systems related issues.

For research purposes, PSAT provides an excellent platform as it allows the user to freely develop and include his or her own models, which is usually all but impossible with dedicated software packages.

Last but not least, the documentation is excellent.

I would also like to use this opportunity to congratulate Prof. Milano for great effort he has put in developing PSAT and providing support. Any support would be highly appreciated so Prof. Milano can continue his excellent job in PSAT development.

Sincerely,

Gregor Verbic

A handwritten signature in blue ink, appearing to read 'Gregor Verbic', with a long horizontal stroke extending to the right.



Rensselaer

DEPARTMENT OF ELECTRICAL,
COMPUTER & SYSTEMS ENGINEERING

November 18, 2006.

To Whom It May Concern:

At Rensselaer Polytechnic Institute, the course *EPOW 4010 – Power Engineering Fundamentals* is offered to undergraduate students pursuing their B.Sc. in Electric Power Engineering. In this course, students learn topics such as transformers and synchronous machines, transmission lines, network matrices, power flow, faults in power systems and etc.

To enhance our students learning they are assigned a course project to solve a practical power system problem. We found that the Power System Analysis Toolbox (PSAT) developed by Prof. Dr. Federico Milano is a suitable tool for the students to learn and solve power flow problems.

Students were taught how to use the program on a brief one-class tutorial, we were surprised to see how quickly many of our students were able to use the program and perform their calculations with it. Some of our students expressed that they enjoyed learning to use the software and that the software has helped them improve their understanding of power systems. This is in part due to the user friendliness of PSAT.

PSAT has been an excellent tool for undergraduate teaching at RPI. I would like to encourage Dr. Federico Milano to continue to distribute and to further develop the PSAT. Any assistance that can be provided to Prof. Milano in support of the further development of this software would be greatly appreciated.

With best regards,

Leila Parsa, Assistant Professor
Electrical, Computer and Systems Engineering
Rensselaer Polytechnic Institute

A handwritten signature in black ink that reads 'L Parsa'.



SERVIÇO PÚBLICO FEDERAL
UNIVERSIDADE FEDERAL DE PERNAMBUCO
CENTRO DE TECNOLOGIA E GEOCIÊNCIAS-ESCOLA DE ENGENHARIA DE PERNAMBUCO
DEPARTAMENTO DE ENGENHARIA ELÉTRICA E SISTEMAS DE POTÊNCIA

Recife, February 27, 2007

To whom it may concern

As associate professor of the Power Systems Department of the Universidade Federal de Pernambuco, I certify that the software Power Systems Analysis Toolbox (PSAT), developed by Prof. Federico Milano, has been used by me as a computational tool to develop research projects and solve assigned homeworks in our graduate courses.

PSAT is a very useful software package for teaching and investigation purposes, covering a wide range of power related topics. It is well elaborated and documented. I take this opportunity to congratulate Prof. Milano for his initiative of distributing his well-documented and comprehensive program worldwide.

Sincerely,

Augusto César Cavalcanti de Oliveira
Associate Professor
Universidade Federal de Pernambuco
Brazil



Facultad de Ingeniería Eléctrica
Instituto Superior Politécnico
José Antonio Echeverría
cujae



Centro de Investigaciones
y Pruebas Electroenergéticas
Instituto Superior Politécnico José A. Echeverría

Ciudad de La Habana, 15 de Julio de 2007

Dr. Federico Milano, Profesor Asistente.
Departamento de Ingeniería Eléctrica.
Universidad Castilla - La Mancha
Campus Universitario, s/n.
13071. Ciudad Real. España.

Estimado Profesor Milano:

Nuestro Centro de Investigaciones y Pruebas Electroenergéticas (CIPEL) pertenece a la Facultad de Ing. Eléctrica del Instituto Superior Politécnico "José Antonio Echeverría" (CUJAE) y tiene entre sus principales funciones la formación de Ingenieros Electricistas, rige a nivel nacional la enseñanza de esta especialidad dentro de las carreras de ingeniería, al mismo tiempo que imparte cursos de Postgrado incluyendo Maestrías y Doctorados como centro autorizado.

Hemos revisado su Toolbox PSAT sobre Matlab, pudiendo comprobar sus excelentes posibilidades para prácticamente ejecutar cualquier estudio en Sistemas Eléctricos de Potencia.

Por la sencillez del software que permite ser asimilado rápidamente por los estudiantes, por la forma detallada de sus tablas de resultados y por la gran variedad de estudios que son posibles acometer con la ayuda del mismo estamos comenzando a utilizar el mismo en los estudios de pregrado y postgrado en nuestro centro.

Queremos felicitarlo por las excelentes posibilidades de su toolbox y esperamos mantenernos en contacto con Ud. brindándole toda la colaboración necesaria.

Con saludos afectuosos,

Dra. Miriam Vilaragut Llanes
Directora CIPEL



Open Secure Energy Control Systems, LLC

8070 Georgia Avenue - Suite 205
Silver Spring, Maryland 20910
Phone: 301-565-4025
Fax: 301-589-9443
Web: <http://www.osecs.com>

June 17, 2008

To whom it may concern:

Under Small Business Innovation Research (SBIR) contracts and grants with the US Department of Homeland Security and the US Department of Energy, Open Secure Energy Control Systems, LLC (OSECS) has been developing a toolkit for implementing IEC 61850 and its wind power extension, IEC 61400-25. The toolkit is being developed as open source software with a parallel commercial license for those users who wish to avoid the implications of the GNU General Public License (GPL) on their "secret sauce" technology.

We have planned and initially tested a GPL-compatible interface to PSAT to enable toolkit applications to access advanced functionality such as power flow. In view of our recent focus on wind power, the inclusion of wind power models in Version 2 of PSAT, and our use of Octave as the base technology for running PSAT, we especially applaud the inclusion in PSAT of software that enables Version 2 of PSAT to be run using Octave.

We view PSAT as the foremost collection of power system software available in the open source community. It has a wide variety of potential applications and incorporates models addressing the most recent, critical issues facing the electric power community.

We commend Dr. Federico Milano for his excellent work and his commitment to open source software.

Sincerely,

/s/

Stanley A. Klein
Managing Principal



DIPARTIMENTO DI
ELETTROTECNICA
ED ELETTRONICA

*Dr. Federico Milano
Electrical Engineering Department,
Univ. Castilla - La Mancha,
Campus Universitario, s/n,
13071 Ciudad Real, Spain*

To whom it may concern:

I certify that the software "Power Systems Analysis Toolbox" (PSAT) developed by Prof. Dr. Federico Milano, is used in my Laboratory as a computational tool for various topics. Many students use the software as an aid to understand the basic issues of power system analysis.

Recently, a student of mine used PSAT during his master thesis work about Smart Grids and, in our opinion, the software has been very helpful to get him quickly involved in the solution of the problem at the basis of his work.

We thank Dr. Federico Milano for his open-source software and we hope that he can further develop PSAT in the near future.

Dr. Massimo La Scala

IEEE Fellow



March 3rd, 2010

Dr. Milano,

My name is Kevin Betts, and I serve as the engineering director for the Advanced Technology Division, a component of the Science Applications International Corporation (SAIC). I wanted to write to commend you on the quality of the Power System Analysis Toolbox (PSAT) software code that you have made available through the GPL license. As we work projects and develop tools, we have found this to be an excellent resource to use to perform independent verification of simulation results from our tool (SIREN) for specialized test cases where the tools overlap. We are also considering making our tools input/output compatible so that we can potentially provide power engineers with an even more powerful analysis capability for tackling future problems of interest in the renewable energy market space that takes advantage of the specialized areas of expertise of each of the tools.

The variety of platforms supported by PSAT (including Matlab and Octave with a Simulink graphical programming set-up capability) combined with some very sophisticated visualization capabilities makes the tool for easy to implement scenarios and quickly understand the results in a physically meaningful way. The wide array of journal and conference papers on the toolbox helped us to quickly understand the capabilities of the tool and determine how to apply it to some of the problems we were trying to solve.

As we discussed previously in emails, as our division becomes more comfortable with using the tool, we are very interested in future potential collaboration opportunities. Our company has a strong history of partnering with small business and universities from around the room whenever the relationship can strengthen the offerings we bring to our customers.

Please, keep up the great work!

Best regards,

A handwritten signature in blue ink that reads "Kevin M. Betts". The signature is written in a cursive style with a large, stylized "K" and "M".

Kevin Betts
Engineering Director
Advanced Technology Division
Science Applications International Corporation (SAIC)
Huntsville, AL (USA) 35802
(256) 213-4724



August 6, 2010

To whom it may concern

It has been about seven years since I was introduced to the software package developed by Federico Milano, PSAT (Power System Analysis Toolbox). In a sense, I have grown up with this software, as it has accompanied through my formal academic training.

As an undergraduate student in Guatemala, I used it to analyze a fair number of class examples and exercises, but more importantly, it gave me the opportunity to introduce this advanced computing tool to students in a developing nation.

As a graduate student while at Rensselaer Polytechnic Institute in Troy, NY, I had the opportunity not only to use it for course projects in graduate courses, but also, I was given the opportunity of teaching undergraduate students of the Power Engineering Fundamentals. I saw that PSAT was useful and exciting for the students.

In addition, during my research visit at The University of Glasgow, Scotland, PSAT was used effectively to verify the results obtained from software being developed at this university.

With my recent appointment at the Royal Institute of Technology (KTH) have come research projects, which I am in charge of supervising. It gives me extreme pleasure to be able to share with my own students a *Free/Libre* and Open Source Software package that will allow them to carry out their thesis work, but also teach them on power system computations due to its open nature. I hope that I will be also able to use it for MSc courses at KTH.

I hope this testimony motivates the continued support and assistance of Federico's effort to develop PSAT and any other projects he carries out. After seven years since I was introduced to PSAT I have not only benefited from having a *Free/Libre* and Open Source Software for power system computations, but also have found in Federico a true gentleman and scholar.

With best regards,

Dr. Luigi Vanfretti
Assistant Professor
Royal Institute of Technology (KTH)
Electric Power Systems Division
Stockholm, Sweden