

**Christine Joyce**

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**To:** Steve Ledoux; Janet Adachi  
**Cc:** Lisa Tomyl  
**Subject:** RE: vacancy on GAB

I will put it on the April meeting 28<sup>th</sup> under consent as he is attending and John Sonner approves as the liaison. I am waiting for the pending file application from VCC to put this together on the agenda.

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**From:** Steve Ledoux  
**Sent:** Tuesday, April 01, 2014 9:38 PM  
**To:** Janet Adachi  
**Cc:** Christine Joyce  
**Subject:** Re: vacancy on GAB

I guess

Sent from my iPad, please excuse any brevity or typos

On Apr 1, 2014, at 9:16 PM, "Janet K. Adachi" <[jkajeg@msn.com](mailto:jkajeg@msn.com)> wrote:

Do we hold this appointment till 4/28?

Janet K. Adachi  
[jkajeg@msn.com](mailto:jkajeg@msn.com)

Begin forwarded message:

**From:** John Sonner <[jsonner@hotmail.com](mailto:jsonner@hotmail.com)>  
**Subject:** RE: vacancy on GAB  
**Date:** April 1, 2014 8:58:58 PM EDT  
**To:** "Christine Joyce" <[cjoyce@acton-ma.gov](mailto:cjoyce@acton-ma.gov)>  
**Cc:** "Dean Charter" <[dcharter@acton-ma.gov](mailto:dcharter@acton-ma.gov)>, "Janet Adachi" <[jkajeg@msn.com](mailto:jkajeg@msn.com)>

I don't think I'll still be in office by the time this "clears" but if so, I strongly approve.

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**From:** Christine Joyce [<mailto:cjoyce@acton-ma.gov>]  
**Sent:** Tuesday, April 1, 2014 11:03 AM  
**To:** Dean Charter; Clerk Department; Manager Department; Volunteer Coordinating Committee  
**Cc:** Green Advisory Board; Lisa Tomyl  
**Subject:** RE: vacancy on GAB

VCC look in your pending file for Renato's application and forward to me for BOS action since I am sure you already vetted him I am sure.

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**From:** Dean Charter  
**Sent:** Tuesday, April 01, 2014 11:02 AM  
**To:** Clerk Department; Manager Department; Volunteer Coordinating Committee  
**Cc:** Green Advisory Board  
**Subject:** vacancy on GAB

Greetings,

Tom Michelman, a long time Associate Member of the Green Advisory Board has submitted his resignation from the Board and we would like to get a new Associate appointed. Renato Nakagomi had submitted paperwork for the position about six months ago but at the time we had two interested parties, and he was not appointed. Renato has attended most of the meetings since then, and has indicated that he is still interested in being appointed. Renato has excellent credentials, and would be a positive asset to the Board. What do we need to do to get him moved onto the Board?

Regards,

Dean A. Charter, MCA, MCPPO  
Staff Support to the Green Advisory Board

The Acton Volunteer Coordinating Committee met June 24, 2013 and interviewed Renato Vakagomi. He is a delightfully enthusiastic young engineer from Brazil. He has attended meetings and reads the towns website weekly. He was a green energy consultant for a company in Cambridge and has worked as a power system engineer.

He is so energetic and happy living here in Acton and very willing to volunteer

The VCC voted to move his name to be forwarded for further consideration.

Jean Lane, VCC

6/25  
John Sanner  
Please Vett

# RENATO NAKAGOMI FOR GAB

Thank you for your interest. If you have questions or would like more information, please contact a member of the Volunteer Coordinating Committee at [vcc@acton-ma.gov](mailto:vcc@acton-ma.gov).

Current membership may be obtained through the Town Manager's office at Town Hall, [manager@acton-ma.gov](mailto:manager@acton-ma.gov) / (978) 929-6611.

*The space below is for use by the Volunteer Coordinating Committee and the appointing body to record the status of your application.*

## VCC Interview

Applicant Called \_\_\_\_\_

Schedule Date & Time \_\_\_\_\_

Recommendation \_\_\_\_\_

Board, Committee or Commission

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recommendation Sent \_\_\_\_\_

## Appointing Body

Selectmen / Manager / Moderator

Interview Date \_\_\_\_\_

Appointed Date \_\_\_\_\_

Term \_\_\_\_\_

Member / Alternate / Associate

## Notification of Appointment

Received by VCC \_\_\_\_\_

Committee Notified \_\_\_\_\_

Applicant Notified \_\_\_\_\_



No Openings at this time



VOLUNTEER COORDINATING COMMITTEE

# VOLUNTEER APPLICATION

Sent to VCC  
4/11  
3200 - 1000  
20000

TOWN HALL  
472 MAIN STREET  
ACTON, MA 01720

TELEPHONE (978) 929-6611  
FAX (978) 929-6350  
EMAIL [VCC@ACTON-MA.GOV](mailto:VCC@ACTON-MA.GOV)

Residents interested in serving on a Town Board, Committee or Commission are requested to complete this form and send it to the Office of the Town Manager at Town Hall.

(Please print or type)

Date: 06/11/2013

Title <input checked="" type="radio"/> Mr. <input type="radio"/> Mrs. <input type="radio"/> Ms. <input type="radio"/> Dr.	First Name <u>RENATO</u>	Last Name <u>NAKAGOMI</u>
Street Address <u>1 TOWN HOUSE LN. #16</u>		
Phone Number(s) <u>617 955 0918</u>	Email Address <u>RMIKIO@GMAIL.COM</u>	

Please indicate below, in order of preference, the Board, Committee or Commission that is of interest to you: GREEN ADVISORY BOARD

Have you previously been a member of a Board, Committee or Commission (either in Acton or elsewhere)? If so, please list the Board name and your approximate dates of service: NO.

Do you have any time restrictions? YES. MONDAY TO FRIDAY, 8AM - 5:30 PM (AFTER 07/01/2013)

Are you a United States Citizen? NO Are you a Documented Resident Alien of Acton? YES

How long have you lived in Acton? 2 YEARS In Massachusetts? 4 YEARS

Present occupation and employer (Optional: attach resume): STARTING ON JULY 1ST 2013, SUPPORT ENGINEER AT NAPATECH.

Do you or your employer have any current or potential business relationship with the Town of Acton that could create a conflict of interest? NO.

Education and special training: BSc., MSc. ELECTRICAL ENG.

Please list below any additional information or comments that may help in the matching of your interests with the most appropriate Board/Committee, such as civic experience, special interests/hobbies, etc.: MEMBER OF BOARD OF TRUSTEES AT YANKEE VILLAGE CONDO; GREEN ENERGY - SMART GRID STUDIES AS POWER SYSTEM ENGINEER.

# RENATO MIKIO NAKAGOMI

(Green Card Holder - U.S.A. Permanent Resident)

1 Town House Ln., #16 - Acton, MA, 01720 Cell: (617) 955-0918 E-mail: [rmikio@gmail.com](mailto:rmikio@gmail.com)

## CAREER OBJECTIVE

Driven **Electrical Engineer** with particular expertise in power systems analysis and technologies, system development, integration, implementation, configuration, troubleshooting, modeling and simulation. Also experienced in developing cutting edge algorithms and parsers, building/managing analytical project models and technical support. Capable of conducting independent research or working in team environment. Welcomes challenges and new opportunities to learn. Well published, with experience reviewing scholarly journal articles. Fluent in Portuguese and English; reading comprehension and basic conversation in Spanish.

## SOFTWARE SKILL SETS

**Advanced Knowledge:** ATP/EMTP, LINUX/Windows/DOS environment, GNU Octave, Inkscape, LaTeX, LibreOffice, MATLAB\Simulink, Microsoft Office Products, Prezi, SVN.

**Basic Knowledge:** ArcView/ArcGIS, AUTOCAD, G&E Enervista, HP-UX, MAC-OS, OMICRON Test Universe, SQL Server 2005-2008, Sun OS, MS Access 2007, Oracle Archt. Admin., SCADA, SQL Server 2005-2008, Windows NT Environment.

## PROGRAMMING LANGUAGES SKILL SETS

**Advanced Knowledge:** C ANSI, GNU Octave Script, LaTeX, MATLAB Script, Visual Basic/VBA Script.

**Basic Knowledge:** Clipper, Google Script, HTML/XML, LINUX shell script, UNIX shell script, SQL Plus/MySQL.

## PROFESSIONAL DEVELOPMENT

IntelliCIS Training School: Simulation-based design of Complex Infrastructure Systems	2013
Practical Training on IEDs Integration and Supervision Systems, Asea Brown Boveri Ltda.	2007
Safety in Electricity Services and Installations, Instituto Monitor S/C Ltda.	2006
OMICRON Test Universe: Theory and Practice, ADIMARCO	2005
Oracle Enterprise DBA Part 1A Architecture and Administration, Gennari & Peartree	2002
Presentation Techniques: Performing with Presence, Maynard Leigh Associates	2000
Six Sigma Quality Control, Six Sigma College	1998

## EDUCATION

<b>Post-graduate studies</b> , Tufts University, Medford, Massachusetts	2010-2013
<b>Post-graduate studies</b> , Northeastern University, Boston, Massachusetts	2009-2010
<b>Post-graduate studies</b> , Universidade de São Paulo, São Paulo, Brazil	2007-2009
<b>M.Sc.</b> , Electrical Engineering - Power Systems, Universidade de São Paulo, São Paulo, Brazil	2006
Thesis: Proposition of a system for high impedance fault simulation in primary distribution network	
Advisor: Professor Eduardo Cesar Senger	
<b>B.Sc.</b> , Electrical Engineering - Power Systems, Universidade de São Paulo, São Paulo, Brazil	2000
Project: Real time virtual simulator for co-generation system	
Advisor: Professor Eduardo Cesar Senger	

## PROFESSIONAL EXPERIENCE

<b>Logios3i</b> , Cambridge, USA	Oct/2012-present
<u>Technical Advisor</u> (non-paid position)	
Advising about Power Systems strategies and technologies to help implement Logios3i ideas. Also mentoring interns to develop and implement Logios3i systems.	
<b>Tufts University</b> , Medford, USA	Aug/2010-May/2013
<u>Research Assistant</u>	
Developing mathematical framework for power system modeling and simulation using equation free methodology.	
<b>Northeastern University</b> , Boston, USA	Aug/2009-Jul/2010
<u>Teaching/Research Assistant</u>	

Conducted research related to photovoltaic (PV) panels and provide assistance to Basic Electronics course for Prof. Bradley M. Lehman.

**Mini Micro Grid 2010-2010**

- Programmed dsPIC33 microcontroller.
- Developed PWM control to H-bridge and DC boost voltage PI controller.

**Reconfigurable PV panel array**

**2010-2010**

- Studied three-phase multilevel converters for PV applications.

**Universidade de São Paulo, São Paulo, Brazil**

**Jul/2002-Jan/2009**

R&D Engineer

Conducted research and development related to power system protection and monitoring.

**Fault Analysis and Diagnosis System**

**2007-2009**

- Assembled two systems developed by USP research team in previous projects (automated fault location system for primary distribution networks and high impedance fault detection system) to follow field performance of high impedance IED.
- Utilized Visual Basic, C, and database (MySQL) to integrate systems.

**Interoperability Studies**

**2007-2008**

- Carried out compliance and performance tests in order to determine whether multivendor protection scheme (GE, Siemens, ABB, AREVA, and SEL) interoperated correctly using IEC61850 standard.
- Managed specification of technical data regarding GOOSE messages; preparation of lab for GOOSE tests; supervision of tests; and acquisition and analysis of GOOSE data.

**Development of Transmission Line Differential Relay (ANSI 87)**

**2004-2007**

- Designated to develop PC-based configuration software of transmission line differential relay prototype; used Visual Basic.

**Fault Location System for Multi-Terminal Transmission Lines**

**2004-2006**

- Developed graphical user interface (GUI) for implemented algorithm with Visual Basic, OpenGL libraries, and database (MySQL) access.

**Intelligent Electronic Device for Fault Location in Distribution Networks**

**2003-2004**

- Tested equipment for use as primary information source of automated fault location system for primary distribution networks.

**Methodology for Downed Conductor Detection**

**2003-2005**

- Collected data on downed conductors' occurrence, implemented distribution feeders in order to simulate high impedance faults, and implemented to fault detection systems.
- Worked with two systems, one based on measurements provided by IEDs installed along feeders, and another based on IED capable of monitoring remote switches.
- Developed and implemented software to automate generation of simulated ATP cases.

**Development of Transmission Line Distance Relay (ANSI 21)**

**2003-2004**

- Created distance relay protection algorithms and analyzed response of these algorithms related to operating conditions of several systems.
- Implemented method to test developed algorithms of relay in ATP software in execution time using foreign models.

**Artificial Intelligence Techniques for Fault Detection, Analysis, and Location in Distribution Feeders**

**2002-2003**

- Studied automated fault location system for primary distribution networks and developing fault analysis software tools to be used with AI techniques.
- Provided assistance to create a clustering algorithm.

**Universidade Cruzeiro do Sul, São Paulo, Brazil**

**Aug/2006-Aug/2008**

Assistant Professor and Graduate Project Advisor

- Taught undergraduate electrical engineering courses for engineering majors in second through fifth year (Electricity, Electromagnetism, Intro. Power Electronics, Intro. Dynamic Systems, Electric Machinery).

**Ericsson do Brasil, São Paulo, Brazil**

**Nov/2001-Jul/2002**

## PUBLICATIONS

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Manassero, G.; Senger, E.C.; Pellini, E.L.; **Nakagomi, R.M.**, "IEC 61850 based systems - Functional testing and interoperability issues," *Industrial Informatics, IEEE Transactions on* , vol.PP, issue 99, pp.1, Early Access Articles.

Manassero, G.; Senger, E.C.; **Nakagomi, R.M.**; Pellini, E.L.; Rodrigues, E.C.N., "Fault-Location System for Multiterminal Transmission Lines," *Power Delivery, IEEE Transactions on* , vol.25, no.3, pp.1418-1426, July 2010.

**Nakagomi, R.M.**; Ye Zhao; Lehman, B.; "Multi-level converters for three-phase photovoltaic applications," *Control and Modeling for Power Electronics (COMPEL), 2010 IEEE 12th Workshop on* , vol., no., pp.1-6, 28-30 June 2010.

Manassero, G.; Senger, E.C.; **Nakagomi, R.M.**; Pellini, E.L.; Rodrigues, E.C.N., Fault location system for transmission lines containing substations connected to derivations . *Sba Controle & Automação*. 2010, vol.21, n.2, pp. 201-213., Campinas, Brazil.

Senger, E. C., Pellini, E. L., **Nakagomi, R. M.**, Manassero Junior, G. 2008. Development of a digital relay for differential protection of transmission lines. In: IX STPC -Seminário técnico de proteção e controle. Belo Horizonte, 2008. Belo Horizonte: FURNAS

Manassero Junior, G., Senger, E.C., **Nakagomi, R. M.**, Pellini, E. L. 2007. Development of a system for fault location at transmission lines with substations connected in derivation. In: IV CITENEL - Congresso de Inovação Tecnológica em Energia Elétrica, Araxá, 2007

Manassero Junior, G., Senger, E. C., **Nakagomi, R. M.**, Pellini, E. L., Rodrigues, E. C. N. 2007. System for fault location at multi-terminal transmission lines. In: Contribuições Técnicas do XII ERIAC - Encontro Regional Ibero-Americano do CIGRÉ. Foz do Iguaçu, 2007

**Nakagomi, R. M.**, Senger, E. C., Manassero Junior, G., Pellini, E. L., Reis Filho, F. A. 2005. Development and implementation of protective devices in ATP. In: VIII STPC -Seminário técnico de proteção e controle. Rio de Janeiro, 2005. Rio de Janeiro: FURNAS

**Nakagomi, R. M.**, Senger, E. C., Manassero Junior, G., Pellini, E. L., Damaceno, W.G. 2005. Modeling and simulation of high impedance faults at distribution systems. In: VIII STPC - Seminário técnico de proteção e controle. Rio de Janeiro, 2005. Rio de Janeiro: FURNAS

Manassero Junior, G., Senger, E. C., Goldemberg, C., Pellini, E. L., **Nakagomi, R. M.** 2004. Automated system for fault location at distribution feeders. In: Anais do XVI SENDI - Seminário Nacional de Distribuição de Energia. Brasília, 2004. Brasília: CEB

Senger, E. C., Reis Filho, F. A., Manassero Junior, G., **Nakagomi, R. M.**, Wehrend, Harald, Zhang, B., Bauschke, S. 2003. Development of a distance protection relay. In: Anais do VII STPC - Seminário técnico de proteção e controle. Rio de Janeiro, 2003. Rio de Janeiro: CEPEL