David Adam Schroeder

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OBJECTIVE	Seeking a senior embedded software developer position

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EDUCATION

Rensselaer Polytechnic Institute
B.S. in Computer Systems Engineering & Computer Science – May 2001   GPA 3.69
M.E. in Electrical Engineering, Control Systems Concentration – December 2012   GPA 3.82

COMPUTER SKILLS

- **Languages:** C, C++, Matlab/Simulink, LabView, VB, Perl, Java, TCL/TK, Assembly
- **Operating Systems:** Windows, VxWorks, Android, Linux, Tru64 Unix.
- **Tools:** Visual Studio, Wind River Workbench, Eclipse, DOORS, VirtualBox, ClearCase, Source Safe, CANalyzer

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EXPERIENCE

December 2008 – Present

- **Staff Software Engineer**
  UTC Power   *South Windsor, CT*
  Lead Software Engineer for Fleet and Military Fuel Cells
  Responsible for design, implementation, and test of control software for Fuel Cell Power Plants
  Responsible for development of requirements, documentation and test plans.
  Developed for multiple platforms including: GE PPC7D, MotoHawk, PowerPC
  Coordinated system integration including the use of Modbus, CAN, RS485, and Ethernet

April 2008 – November 2008

- **Principle Software Engineer**
  General Dynamics, Advanced Information Systems   *Pittsfield, MA*
  Embedded Software for the Trident Missile Program
  Responsible for design, implementation (C/C++) and test using a CMMI-5 process.

February 2005 – April 2008

- **Electrical Engineer**
  KAPL, Inc., a Lockheed Martin Company   *Niskayuna, NY*
  Automated testing of software for safety critical control systems.
  Responsible for testing throughout software lifecycle including Unit, Functional, HIL, and regression testing.
  Development of test utilities in Visual Basic and C++/MFC

May 2001 – November 2004

- **Software Engineer II**
  Hewlett-Packard (Formerly Compaq)   *Nashua, NH*
  Development of Tru64 platform specific code for Alpha systems (DS20L, DS25).
  Development and support of Tru64 mass storage class drivers.

Summer 2000 Summer 1999

- **Summer Internship**
  Nortel Networks   *Billerica, MA*
  Port of TCL/TK hardware verification tests to Java using in house test harness.
  Systems and Network engineering group - Network configuration and support

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ADDITIONAL EXPERIENCE

- **Mentor – Bobcat Robotics - FIRST Team 177**
  Electrical and Software mentor for high school robotics competition
  World Champions 2010, Championship Finalist 2011
- **Captain - Civil Air Patrol (United States Air Force Auxiliary)**
  Served as Finance, Testing, Emergency Services, Communications and Transportation Officer
  Qualified Mission Pilot, Mission Observer and Ground Team Leader.

ACCREDIATIONS

- Private Pilot, Single Engine Land
- Amateur Radio Operator KB1FCH [Extra Class License]
- Previously held a DOE 'Q' Security Clearance (Top Secret Equivalent)
- Certified Emergency Medical Technician and Firefighter
- Certified Emergency Medical Services Instructor (EMS-I)

INTERESTS

- Flying
- EMS/Fire
- Hiking / Camping
- Motorcycles