### Summary

Software Engineer with 22 years of industry experience. I have a diverse skillset that includes design, implementation, RTOS, user interface, scripting, memory management, task scheduling, communication protocols, test automation, configuration management, and agile process. See LinkedIn for references.

### Education

Bachelor's: Computer & Information Science [UMass](https://www.umassd.edu/)  1998

Associates: Electrical Engineering Technology [BCC](http://www.bristolcc.edu/) 1995

Associates: Electro-Mechanical Engineering Technology [BCC](http://www.bristolcc.edu/) 1994

### Patent

Awarded: Wireless Communication and Method, # US 20120163599 A1 [USPTO](http://appft.uspto.gov/netahtml/PTO/srchnum.html) 2012

### Certificates

Awarded: Scrum Master – Badge ID – 1042603 [Scrum Alliance](https://www.scrumalliance.org/) 2019

### Training

Completed: Technical Writing [Udemy](https://www.udemy.com/) 2021

## **Employment History**

### Senior Embedded Software Engineer 2014 – 2020

[Bose Corporation](http://www.bose.com/) – Framingham, MA

Roles: Developer (primary role), test automation, tech lead, manager, and documentation

Products: Bluetooth enabled – portable speakers, earbuds, headphones, and wearables speakers

Tools / Technologies: C, C#, SNV, Jira, GIT, Agile, FreeRTOS, Cygwin, PMIC, NFMI, I2C, SPI, BLE, Bluetooth, USB

### Senior Embedded Engineer (Consultant) 2011 - 2013

[Mueller Water Products](https://www.muellerwaterproducts.com/) - Middleboro, MA

Roles: Developer (primary role), protocol design, test automation, and documentation

Product: Customer water usage meter, relay data using a propriety mesh network

Tools /Technologies: C, C++, Atmel, TI, Zigbee, Python, SVN

### Senior Software / Firmware Engineer 2002 – 2011

[American Power Conversion](https://www.apc.com/us/en/) (Now [Schneider Electric](https://www.se.com/us/en/)) - W. Kingston, RI

Roles: Developer (primary role), test automation, tech lead, and documentation

Products: Linux Based Sensor coordinator, Netbotz Sensor pods, network card for UPS

Tools / Technologies: C, Jira, SVN, C++ (MFC), USB, SPI, UCOS II, CAN, Zigbee, Environmental Sensors

### Firmware Engineer 2001 – 2002

[Taqua Inc](https://ribboncommunications.com/company/media-center/press-releases/sonus-acquires-taqua-leading-supplier-ip-communications-systems). - Hyannis, MA

Roles: Developer (primary role), test automation, and documentation

Product: End Office / Class 5 switching system with integrated soft switch functionality

Tools / Technologies: C, SNMP, IOCTL, TCP/IP, SVN

### Software / Automation Engineer 1998 -- 2001

[Motorola](https://www.motorola.com/us/) - Mansfield, MA

Roles: Developer and test automation

Products: VoIP/ Data routers, Base Transceiver Station / Radio Access Network

Tools / Technologies: C, SNMP, IOCTL, SVN, Linux, TCP/IP, TCL/TK, Perl, Expect, VB script