

EDUCATION

Master of Science – Electrical engineering (Concentration in Computer engineering)
Rochester Institute of Technology (NY, USA)

Bachelor of Engineering – Electronics and Communication
Karunya University (Coimbatore, India)

PROFESSIONAL
EXPERIENCE

Principal System Architect – Acuity Brands Inc. (Ma, USA) April 2020 – Present

- Designed and reviewed architecture for secure IoT products
- Worked with customer facing sales and product teams to define technical requirements
- Collaborated with customer success teams to address issues onsite
- Built POCs and Innovative solutions for Target® and Walmart®
- Lead firmware development team of five engineers

Principal Firmware Engineer – Acuity Brands Inc. (MA, USA) May 2016 - May 2020

- Designed security architecture for multiple products
- Worked with security teams for pen testing of hardware products.
- Optimized hardware manufacturing and end of line testing
- Designed and deployed the largest BLE mesh network in the US (6 million nodes)

Sr. Software Engineer (Firmware) – BeON Home (MA, USA) Mar 2015 – Apr 2016

- Developed BLE mesh connected lights with audio detection.
- Conceptualized products to market (Kickstarter to Amazon.com)
- Lead hardware and software system design
- Built voice/sound enabled sensors for home automation

Sr. Software Engineer– Osram Sylvania R&D (MA, USA) Mar 2014 – Feb 2015

- Research and development of advanced sensors
- Developed scalable security solutions BLE/ Zigbee mesh networking
- Rapid prototyping and conceptualization of building automation systems

Engineer I–Emulex Corporation (MA, USA) Jun 2013 – Mar 2014

- Automated overnight driver testing harness (Python/Perl) design
- Developed Linux upstream (kernel.org) patch submission tools for SCSI-LPFC drivers
- Developed Linux driver for high speed fiber optic network card

Engineer I–Think Labs at IIT Bombay (Mumbai, India) May 2010 – May 2011

- Developed robotics systems for training students in STEM
- Designed and developed dev. Kit for embedded system education and training
- Taught over 1000 hours of C/C++, computer architecture and basic electrical concepts.

PROGRAMMING
AND HARDWARE
SKILLS

Languages: C, C++, Python, HTML5, CSS, PHP, Java, Perl, VHDL, Verilog

Electrical: Orcad, Eagle, PSPICE

Microcontrollers: PIC, ARM A/M/Cortex, ATMEGA, ZYNQ, STM, LPC, PSOC 4-5

RTOSs: RTX, Android, QNX, uCosII, Free RTOS

Prototyping Tools: MakerBot, Raspberry Pi, Arduino, mBed, Beagle Bone



SCAN ME