

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

- Firmware Engineer II Amazon Inc.** (MA, USA) Jan 2022 – Present
- Designed secure software for POS devices
 - Developed battery optimization code for IoT devices
 - Developed novel technologies to secure IoT devices
 - Build scalable firmware deployment systems
- Principal System Architect – Acuity Brands Inc.** (MA, USA) April 2020 – Dec 2021
- 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
- Engineer I–Think Labs at IIT Bombay** (*Mumbai, India*) May 2010 – May 2011

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

