

SAJIN GEORGE

Firmware Engineer

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EXPERIENCE

Systems Engineer II

Amazon Robotics

- 📅 07/2024 - Present 📍 MA, USA
- Designed modular warehouse control systems
 - Built and deployed warehouse customization tools

Firmware Engineer II

Amazon Inc

- 📅 01/2022 - 07/2024 📍 MA, USA
- Designed secure software for POS devices
 - Solved battery life optimization issues for IoT devices
 - Developed novel technologies to secure IoT devices
 - Build scalable firmware deployment systems

Principal System Architect

Acuity Brands Inc

- 📅 04/2020 - 12/2021 📍 MA, USA
- Designed and reviewed architecture for secure IoT products
 - Worked with customer facing sales and product teams to define technical requirements
 - Built POCs and Innovative solutions for Target® and Walmart®
 - Hired and lead a team of five hardware and software engineers

Principal Firmware Engineer

Acuity Brands Inc

- 📅 05/2016 - 05/2020 📍 MA,USA
- Designed security architecture for multiple IoT products
 - Collaborated 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

BeON Home

- 📅 03/2015 - 04/2016 📍 MA, USA
- 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

- 📅 03/2014 - 02/2015 📍 MA, USA

Engineer I

Emulex Corporation

- 📅 06/2013 - 03/2014 📍 MA,USA

Engineer I

Think Labs - IIT Bombay

- 📅 05/2010 - 05/2011 📍 Mumbai, India

EDUCATION

Master of Science - Electrical engineering

Rochester Institute of Technology

- 📅 2011 - 2013 📍 NY, usa
- Concentration in Computer engineering
 - Rochester Institute of Technology (NY, USA)

Bachelor of Engineering - Electronics and Communication


Karunya University


- 📅 2006 - 2010 📍 Coimbatore, India


SUMMARY


Firmware engineer with over 10 years of experience in firmware development and system architecture, expert in IoT security and RF technologies. Key achievements include leading a team to deploy the largest Bluetooth mesh network in the US with 6 million nodes and conceptualizing IoT products from Kickstarter to shipping to customers.

KEY ACHIEVEMENTS

- **The Largest Bluetooth Network In The US**

Led a team to deploy 6 million node BLE mesh network.
- **Kickstarter To Amazon**

Conceptualized products from Kickstarter to shipping on Amazon
- **Improved IoT Security**

Designed state-of-the art tamper protection system for point-of-sale embedded systems.
- **Deployment Efficiency**

Streamlined IoT firmware deployment and fleet management system

SKILLS

Android	Arduino	BLE	Eagle PCB	
Firmware	IoT	Java	Microcontrollers	
PIC	PSPICE	Python	Raspberry Pi	
RTOS	Verilog	VHDL	RF	PLC
Industrial controls		Computer Vision		
Embedded Linux		Robotics		
Hardware Debugging		C/C++	Your Skill	