

**STRATEGIC TECHNOLOGY LEADER**

**ROBOTICS | INTERNET OF THINGS (IoT) | SERVERLESS ARCHITECTURE | INNOVATIVE TECHNOLOGY LEADERSHIP**

Strategic Technology Leader with a career track record of success in driving the design, innovation and architecture of cloud applications/infrastructures within the competitive technology/robotics industry. Demonstrated expertise in developing cost-effective technology solutions that enable improved product performance and user/customer experiences. Significant background in leading the introduction of serverless architecture, IoT methods and digital transformation to support product development within highly competitive markets. Recognized as a strategic innovator who consistently recommends new strategies, methodologies and solutions that boost operational performance and profitability.

**Areas of Excellence**

Cloud Architecture • Product Development & Optimization • Software & Solutions Architecture • Digital Transformation  
 Serverless Applications/Infrastructure • Cloud Solutions • Executive Presentations & Public Speaking • Innovative Technology  
 Solutions Design • Program/Project Leadership • Change Management • Amazon Web Services • Robotics

**PROFESSIONAL EXPERIENCE**

**ABC, New York, NY**

2015 – Present

**Senior Cloud Robotics Scientist (2017 – Present); AWS Serverless Hero (2017 – Present)**

Promoted into dual role as software lead for the build-out of an innovative, low-cost educational robot while also serving as champion for serverless architecture. Charged with leading the design, architecture and implementation of cloud solution for developing a serverless robot product. Provide leadership and direction for technical team responsible for building serverless applications used in experimental user-facing features and cloud infrastructure to support R&D efforts for future products.

- Architected cloud application that could be scaled to support the development and operation of millions of robots and hundreds of transactions per second with minimal human effort. Designed the cutting-edge architecture, which has received recognition as an innovative tool for managed service operations.
- Introduced serverless culture at iRobot to streamline and enhance development processes; transitioned to lean, cost-effective cloud development practices, which was adopted across the organization.
- Served as subject matter expert (SME) for serverless cloud architecture and Amazon Web Services (AWS); facilitated numerous speaking engagement and community education seminars on AWS and serverless architecture to educate stakeholders and business partners on the benefits of the innovative technology.
- Forged and continue to manage partnerships with AWS service teams to support adoption and continuous improvement across all business functions.

**Cloud Robotics Research Scientist (2015 – 2017)**

Hired to lead the architecture and enhancement of fully serverless design for the cloud application to support connected Roomba fleet. Oversaw the full end-to-end architecture process, working closely with cross-functional and leadership teams to ensure the seamless transition to a serverless product environment.

- Architected the application to utilize 30+ AWS services for proper operation with no containers or VMs.
- Designed and wrote complex deployment tooling to support the application’s serverless infrastructure.
- Conducted extensive analysis on existing infrastructure tools and existing architecture; identified areas for improvement and recommended the transition to serverless infrastructure.
- Led the development and deployment of innovative tooling framework to meet new infrastructure needs.

**UNIVERSITY OF COLLEGE**

2008 – 2014

**Graduate Student Researcher**

Contributed to research projects focused on cloud robotics, robot grasping, surgical robotics, UAVs and control theory.

*Additional Experience: Software Engineer – ABC Technologies*

**EDUCATION**

**UNIVERSITY OF COLLEGE** – Ph.D., Mechanical Engineering  
**UNIVERSITY OF COLLEGE** – Bachelor of Arts, Physics & Mathematics (*Summa Cum Laude*)