

Barbara J. Hawkins
Computer Engineer Specializing in Embedded Systems
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Summary of Qualifications

Detail-oriented computer engineer with 5+ years of expertise working with embedded systems, artificial intelligence, machine learning, and automation technologies. Increased multiply-accumulate performance on proprietary DSP algorithms by 5% through system and chip analysis revamp. Seeking to leverage first-hand experience with driverless car technology and integrated systems to become the lead computer engineer at Alset Automotive Technologies.

Work Experience

Embedded Systems Computer Engineer

December 2016–July 2019

Artificial Mobility Systems & Design, Cincinnati, OH

Key Qualifications & Responsibilities

- Oversaw design, development, and upgrades to system-on-chip devices and Internet-of-Things (IoT) electronics.
- Developed testing methods of prototypes to be used in driverless vehicles, AI assistants, and other commercial endeavors.
- Supervised attributes of microprocessor and microcontroller design to ensure performance, accuracy, and cost-effectiveness.

Key Achievements

- Located 5 incompatibility issues overlooked by QA team before products hit the market.
- Increased multiply-accumulate performance on proprietary DSP algorithms by 5% through analysis overhaul.

AI / ML Computer Engineer

June 2014–November 2016

IoT Research Associates of Ohio, Cincinnati, OH

Key Qualifications & Responsibilities

- Developed artificial intelligence and machine learning products, software, and other solutions for commercial, industrial, and educational purposes.
- Tweaked deep-learning systems and associated algorithms for better natural language processing and delivery.
- Designed and conducted research experiments to test theories for improved performance.

Education

Bachelor of Science in Computer Engineering Technology

Old Dominion University, Norfolk, VA

Graduation: 2014

Relevant Coursework: Computer Engineering Fundamentals, Wireless Communications & Networking, Computational Algorithms, Natural Language Processing, Internet-of-Things Devices, Data Protection & Security, Software and Hardware Engineering.

Key Skills

- Artificial Intelligence (AI) & Machine Learning (ML)
- Deep Learning for Java (DL4J) toolkit
- Computational Research & Development
- Classification Algorithms
- Edge Computing
- Teamwork

Certifications

- Certified Master of Electrical and Computer Engineering (CSU)
- Certified Information Systems Security Professional (CISSP)

Memberships

- Association for Computing Machinery (ACM)
- Association for the Advancement of Artificial Intelligence (AAAI)
- Association for Women in Computing (AWC)

Languages

- Greek: Basic Conversational Proficiency