

Barbara J. Hawkins

Computer Engineer Specializing in Embedded Systems

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.

Experience

2016-12 -
2019-07

Embedded Systems Computer Engineer

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.

2014-06 -
2016-11

AI / ML Computer Engineer

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

2014

Bachelor of Science in Computer Engineering Technology

Old Dominion University, Norfolk, VA

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

Certificates

Certified Master of Electrical and Computer Engineering (CSU)

Certified Information Systems Security Professional (CISSP)

Memberships

Association for Computing Machinery (ACM)

Personal Info

Phone

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E-mail

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LinkedIn

linkedin.com/in/barbarahawkins

Skills

Artificial Intelligence (AI) & Machine Learning (ML)

Deep Learning for Java (DL4J) toolkit

Computational Research & Development

Classification Algorithms

Edge Computing

Teamwork

Languages

Greek

Basic Conversational Proficiency

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