

JOHN YARE

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EDUCATION

Master of Science: Electrical and Computer Engineering

Kennesaw State University

- GPA: 4.0 - Fall 2024 Dean's List | Spring 2025 Dean's List

Expected in 12/2025

Marietta, GA

Bachelor of Science: Electrical Engineering

Kennesaw State University

- GPA: 3.78 - Fall 2023 Dean's List | Spring 2024 Dean's List

05/2024

Marietta, GA

SKILLS

Languages: Python, C++, MATLAB, Bash, Java, React

Tools: Oscilloscopes, PLC Programming, PowerWorld, AutoCAD Electrical, ETAP, Simulink

Core Competencies: RF Engineering, Control Systems, ML/AI, System Architecture, Performance Analysis, Power Flow Analysis, Electrical Circuit Design, NEC, NFPA, NLP, Solar PV System Design, Computer Vision.

Certifications: FE (Engineer-In-Training) Certification - Issued: August 2025

PROFESSIONAL EXPERIENCES

Graduate Research Assistant

Kennesaw State University SPCEET

- Conduct research in neuromorphic computing and energy-efficient AI systems.
- Assist in developing Spiking Neural Networks (SNNs) for edge computing applications.
- Participate in weekly lab meetings with faculty and peers on interdisciplinary projects.

08/2025 to Current

Marietta, Georgia

Electrical Engineering Intern

Raymond Engineering LLC

- Prepared electrical drawings and layouts, including power distribution, lighting, and riser diagrams.
- Created electrical system installation drawings using AutoCAD Electrical and Revit, ensuring compliance with NEC standards.

05/2025 to 08/2025

GA

Project Manager Intern

Kennesaw State University

- Developed facility protocols and technical documentation to ensure clarity and compliance.
- Collaborated with cross-functional teams to streamline facility operations and meet project deadlines.

01/2024 to 12/2024

Marietta, Georgia

RESEARCH EXPERIENCES

Volunteer Researcher, Perovskite Solar Cell Lab (MSc 2025)

Kennesaw State University

- Contribute to groundbreaking research on perovskite solar cells (PSCs), focusing on synthesis methods (e.g., STL, ITC, ASPM) and charge transport optimization.
- Presented foundational findings in departmental seminars.

01/2025 to 05/2025

Volunteer Researcher, Neuromorphic Computing Lab (MSc 2025)

Kennesaw State University

- Annotate datasets for hybrid spiking neural networks (SNNs) and CNNs to improve pattern recognition in neuromorphic hardware.
- Optimize spike-timing-dependent plasticity (STDP) algorithms for energy-efficient AI.

01/2025 to 05/2025

PROJECTS

Efficient Binary Image Classification Using Spiking Neural Networks (SNNs) (MSc 2025):

- Designed an SNN using the Leaky Integrate-and-Fire (LIF) neuron model to classify 20x20 pixel shapes (circles vs. squares) with 100% accuracy.

SDN-IoT Network for Medical Monitoring and Response availability Using Mininet-WiFi (MSc 2025):

- Designed a scalable SDN-IoT network with Mininet-Wifi to enable real-time medical data streaming between vehicles (ambulances, medical drones) and hospitals/emergency centers..

Deep Learning Ensemble Model for Multi-Class Sports Classification (MSc 2024):

- Built an efficient deep learning ensemble model (TensorFlow/Keras) for pattern recognition with high accuracy, focusing on performance analytics and iterative algorithmic improvements.