

Zackary Reeve

Electrical Engineering Student (Junior)

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PROFILE

Analytical and hands-on Electrical Engineering student passionate about embedded systems, robotics, automation, and system design. Experienced with CAD, prototyping, and microcontroller development. Known for strong teamwork, creative problem solving, and a commitment to building efficient systems. Always looking for new and exciting projects.

EDUCATION

Associate of Science in Computer Science June 2025

Holyoke community college | Holyoke, MA

Bachelor of Science in Electrical Engineering Exp. June 2027

University of Massachusetts Dartmouth | Dartmouth, MA

ENGINEERING EXPERIENCE

CAD Drafter & Designer – *Pike Engineering*, Mansfield, MA (Aug 2024 – July 2025)

- Developed and maintained detailed CAD drawings for utility replacement projects
- Automated legacy Excel templates for project tracking reducing reporting time by 40%
- Verified field survey data and engineering teams to meet strict project deadlines

Power Engineering Intern – *Taunton Municipal Light Plant (TMLP)*, Taunton MA (Summer 2022)

- Supported engineering team in diagnosing transmission load imbalances across large scale distribution systems
- Produced detailed AutoCAD KVA load schematics for transmission lines
- Conducted field inspections to verify reliability and compliance with safety standards
- Gained knowledge of electrical grid operation, system protection, and utility safety procedures

PROJECTS

Wi-Fi Smart Chess Board (Personal Project)

- Engineered a Wi-Fi synchronized chess board allowing remote play with friends on physical boards using an ESP32 microcontroller, shift registers, and button matrices
- Developed a custom PCB in KiCad featuring custom symbols and footprints
- Designed 3D structural models using Fusion360

“Micromouse” Autonomous Maze Robot (Team Project)

- Team collaboration designing and building an autonomous maze solving robot for competition
- Currently in the research and early design phase for sensor selection, algorithm research, and control systems.

SOFTWARE

KiCad | MATLAB | Excel | Fusion360 | Microstation-Bentley | AutoCAD | Microsoft office suite