

Casey Nathanson

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Education

Embry-Riddle Aeronautical University	Daytona Beach, FL
Bachelor of Science Electrical Engineering Minor in Systems Engineering	2024 - 2028
Lake Sumter State College	Leesburg, FL
Associates GPA: <i>Summa Cum Laude</i>	2022 - 2024
Leesburg High School	Leesburg, FL
GPA: <i>Summa Cum Laude</i>	2020 - 2024

Skills

Embedded Systems:	Verilog, Vivado, Basys 3, FPGA, ESP32, Arduino, C and Assembly
Hardware/CAD:	KiCAD, EAGLE, Circuit Design, PCB Testing
Programming and Software:	PHP, JavaScript, MATLAB, Linux (Debian/Ubuntu/RHEL)
Systems Engineering:	Trade Studies, Risk Analysis, AHP, QFD, Simulation
Project Management:	Jira, SCRUM

Projects

Project NODE KiCAD	2025 - Present
Currently developing a portable, three-node network platform for cybersecurity testing, which involves engineering a custom PCB power supply and setting up network nodes. This project provides hands-on experience in circuit design, embedded systems, and network implementation.	
Makerspace Order Management Platform PHP	2025 - Present
Designed and built a new order management platform using PHP, phpMyAdmin, JS, and Debian Linux for the ERAU Makerspace. Platform tracks all print orders and progress, significantly improving service efficiency.	
Autonomous Robot Arduino	2024
Designed and built an Arduino-based mobile robot to meet defined performance requirements. Developed and tested line-following algorithms and added remote connectivity for control and real-time data monitoring.	
Computer Numerical Control (CNC) Systems Mach3, GRBL	2019 - Present
Assembled, calibrated, operated, and maintained various large-scale CNC systems, including Routers, Fiber Lasers, and CO2 Lasers.	

Work Experience

Center for Innovation and Entrepreneurship - Embry-Riddle	Daytona Beach, FL
<i>Business Development Coordinator</i>	2025 - Present
<ul style="list-style-type: none">Consult with clients to guide the technical and market refinement of their business ideas for successful implementation.Structure business goals and technical roadmaps, applying project tracking principles to client ventures.	
BYTE BROADBAND	Central Florida
<i>Founder</i>	
<ul style="list-style-type: none">Directed comprehensive technical business operations, including fiber internet deployment, implementation of Voice over IP (VoIP) services, and IT/Web development solutions.Managed technical projects and led teams to deliver telecommunications and network services.	

Awards, Leadership, and Service

Honor Roll Designation	Embry-Riddle Academic Affairs
	2025
Dean's List	Embry-Riddle College of Engineering
	2024
Sunshine State Scholar	Florida Department of Education
Recognized as one of Florida's top scholars going into a STEM field.	2023
Eagle Scout	Boy Scouts of America
Led the construction and refurbishment of over \$15,000 in computer equipment for homeless youth.	2022