

# Casey Nathanson

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## Education

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

<b>Project NODE KiCAD</b> 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.	2025 - Present
<b>Makerspace Order Management Platform PHP</b> 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.	2025 - Present
<b>Autonomous Robot Arduino</b> 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.	2024
<b>Computer Numerical Control (CNC) Systems Mach3, GRBL</b> Assembled, calibrated, operated, and maintained various large-scale CNC systems, including Routers, Fiber Lasers, and CO2 Lasers.	2019 - Present

## Work Experience

<b>Center for Innovation and Entrepreneurship - Embry-Riddle</b> <i>Business Development Coordinator</i>	Daytona Beach, FL 2025 - Present
<ul style="list-style-type: none"><li>Consult with clients to guide the technical and market refinement of their business ideas for successful implementation.</li><li>Structure business goals and technical roadmaps, applying project tracking principles to client ventures.</li></ul>	
<b>BYTE BROADBAND</b> <i>Founder</i>	Central Florida 2022 - Present
<ul style="list-style-type: none"><li>Directed comprehensive technical business operations, including fiber internet deployment, implementation of Voice over IP (VoIP) services, and IT/Web development solutions.</li><li>Managed technical projects and led teams to deliver telecommunications and network services.</li></ul>	

## Awards, Leadership, and Service

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