Bryon F. Catlin III

(941) 740-4236 | bryon.catlin@gmail.com | https://www.linkedin.com/in/bryoncatliniii | Port Charlotte, FL *(Open to relocate)*

EDUCATION

Florida Polytechnic University GPA: 3.95   Lakeland, FL
Bachelor of Science: Computer Engineering, President's List   May 2025
Related Coursework: Autonomous Robotic Systems, Circuits I/II, Control Theory, Digital Logic Design, Digital Electronics, Digital Signal Processing, Intro. to Programming (C), Microprocessors (Assembly), Object Oriented Programming (C++), Systems and Signals

Florida SouthWestern State College GPA: 3.9   Punta Gorda, FL
Associate in Arts, Dean's List   May 2022
Related Coursework: Calculus I/II, Introduction to Computer Programming (Python), Macroeconomics

PROFESSIONAL EXPERIENCE

Overhead Intelligence | *Associate Computer Engineer* | Lake Wales, FL   August 2024 – Current
- Developed embedded systems software and programmed in C/C++
- Integrated Hardware/Software systems through Hardware/Software codesign

Overhead Intelligence | *Computer Hardware Engineer Intern* | Lake Wales, FL   October 2023 – August 2024
- Developed photogrammetry image processing tool to process 1000+ images in less than one hour
- Deployed AWS cloud development tools such as AWS API Gateway, Cloudwatch, EC2, Elastic Beanstalk, Lambda, and SQS
- Increased productivity by 70% through developed automated processes such as Linux, scripting, C, Python, and git
- Streamlined automation and utilized Linux operating systems to reduce cloud processing costs by 93%
- Designed Printed Circuit Boards and performed circuit analysis/calculations
- Ensured code versioning and documentation/tracking via git
- Developed using tools such as: SPI, CAN, USB, and USART communication protocols
- Professional skills: Documentation, technical writing, cybersecurity, teamwork, communication, and field testing

Ultra-Tech Enterprises, Inc. | *Computer Engineering Intern* | Port Charlotte, FL   May 2023 – August 2023
- Automated testing processes through scripting and pipelining to increase production & reliability by 80%
- Engineered embedded systems solutions using SPI, I2C, and Serial Communications
- Documented project usage, troubleshooting, and operation manual

SKILLS & CERTIFICATIONS

Certifications: FAA Small UAS – Part 107 License
Programming: *Advanced:* C, C++, Python, JavaScript, embedded software, Verilog/VHDL, HTML, CSS *Intermediate:* C#, Rust
Software: KiCAD, HSpice, MATLAB, Simulink, Solidworks, OnShape, Microsoft Excel, Microsoft Word, Microsoft PowerPoint
Hardware: Circuit/PCB design, soldering, and repairing/replacing electronic components

PERSONAL EXPERIENCE & PROJECTS

Phoenix Racing Team Lead: Solar Powered Endurance Vehicle   Fall 2022 – Fall 2024
- Led a subgroup to develop a solar vehicle placing higher than 70% of competition at Formula Sun Grand Prix
- Completed circuit diagrams and efficiency calculations
- Designed, planned, and assembled solar array setup for optimal voltage/current output

Motion Controlled Quadcopter (AVR C)   Spring 2024
- Developed embedded C flight and motor controller
- Utilized control system feedback loops to stabilize quadcopter in flight
- 3D printed and designed mounting components and propellers

Discord Bot: Javascript   Fall 2023
- *Natural Language Processing:* Used ChatGPT DaVinci API to autocomplete sentences
- Programmed a chat helper bot through the Discord.js API. Hosted on a raspberry pi Single Board Computer

VOLUNTEER EXPERIENCE

Rotaract International, President | *Florida Polytechnic University* | Lakeland, FL   November 2022 – Current
- Communication and professionalism skills: Lead meetings and manage club roles/duties
- Networking: Assisted with the growth of our club's mentorship program
- Raised over $5,000 in fundraised and sponsored funds
- Increased official membership and meeting attendance by 200%

Society for Hispanic Professional Engineers, VP Professional Development | *FL Polytechnic Uni.* | Lakeland, FL   June 2024 – Current
- Performed event planning, club support, promoted membership and professional development