

DAVID COLE

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Aspiring integration & test / systems engineer with hands-on embedded, PCB, CAD, and firmware experience across a commercial engineering internship, university satellite research, and small-business operations. Selected for commission into the **United States Space Force** (April 2026, pending OTS class date).

PROFESSIONAL EXPERIENCE

Flux Engineering — Oviedo, FL Apr 2025 – Present

Engineering Intern, Part-time

- Performed PCB flashing and firmware programming on a smart valve product line using custom test fixtures and flashing scripts.
- Completed electronics assembly of finished units: integrated programmed PCBs with solenoids, valves, and battery packs.
- Verified component functionality of assembled boards using a custom hardware test fixture prior to product staging.
- Designed mechanical parts in SOLIDWORKS that were converted to Fusion CAM workflows by senior staff; received instruction on toolpath selection, fixturing, and CNC safety.
- Supported embedded development on an ESP-IDF / Zigbee device evaluation.

University of Southern Maine — Gorham, ME Oct 2024 – Dec 2024

Research Assistant, CubeSat Project

- Modified PyCubed flight software and tested serial communication on the satellite motherboard.
- Diagnosed and resolved a USB interface defect on a satellite board during live board testing.
- Recovered archived PCB design files to enable the team to reprint a circuit board.

LongHorn Steakhouse — Oviedo, FL May 2026 – Present

Server, Part-time

- Manage 4-5 tables simultaneously during high-volume dinner service; consistently meet timing and quality standards under pressure.

GNC — Orlando, FL Dec 2024 – Feb 2026

Sales Advisor, Part-time

- Guided customer product selection across nutrition and supplement lines; maintained inventory accuracy and provided management coverage during absences.

ClixCultureMedia LLC — Florida Feb 2023 – Aug 2024

Owner / Self-Employed

- Founded and operated a small media and IT-services business as sole owner.
- Deployed and configured mini-PC workstations across multiple client locations; architected employee vs. owner Google account structures; configured Chrome Remote Desktop for cross-location access.
- Produced aerial video, product photography, and trade show display material for clients across Florida.

Best Buy — Orlando, FL & South Portland, ME May 2022 – Nov 2024

Sales Advisor, Seasonal

- Primary resource for cameras and computers across two locations; recognized as MVP December 2022 / January 2023 at Store 157.
- Cross-trained across departments; mentored new team members in computing and camera sales.

New England Ocean Cluster — Portland, ME Jan 2023 – May 2024

Honors Intern (three semesters)

- Produced aerial video and real estate content through USM's Honors Program; contributed to blue-economy commercial value research and event promotion.

EDUCATION

Western Governors University — Orlando, FL Expected Sep 2026

Bachelor of Science, Computer Science

TECHNICAL SKILLS

Programming: Python, SQL, Java, JavaScript, HTML, CSS, Git

CAD / Design: SOLIDWORKS (CSWA), Autodesk Inventor

Electronics: PCB flashing/programming, hardware test fixtures, oscilloscope, multimeter, logic analyzer, function generator, soldering

Embedded & Firmware: ESP-IDF / Zigbee, PyCubed flight software

Fabrication: 3D printing (slicing + post-processing), CNC exposure (Fusion CAM workflows)

Drone Operations: FAA Part 107 sUAS

Systems: Microsoft Office Suite, Google Workspace, Linux fundamentals

CERTIFICATIONS & LICENSES

- SOLIDWORKS Mechanical Design Associate (CSWA)
- Autodesk Inventor (Certified User)
- FAA Part 107 License (Commercial Remote Pilot) + Recurrent (ALC-677)
- Microsoft Office Specialist — Word, Excel, PowerPoint

LEADERSHIP & ATHLETIC EXPERIENCE

Air Force ROTC (UNH Cross-Town) · Cadet Third Class Jan 2024 – Dec 2024

Led PT reporting for AFROTC cadets while cross-training with Army ROTC; tracked attendance and coordinated branch scheduling.

Varsity Baseball, University of Southern Maine · LHP & Outfield Aug 2022 – Jan 2024

Balanced Division III academic-athletic load; served on Student-Athlete Advisory Committee for campus event planning.

Resident Assistant, University of Southern Maine Aug 2024 – Dec 2024

Led residential community; enforced policies, mediated conflicts, planned floor events, prepared written transition plan for successor team.

Florida Futures League (Division II) · LHP / OF / 1B May 2023 – Aug 2023

Team won the 2023 league championship. Improved individual performance through self-coaching, feedback loops, and structured practice.