

Jason Knaebel

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Professional Summary

Resourceful and adaptable Electrical Engineer with hands-on experience in PCB design, embedded systems, power systems analysis, and field testing in challenging environments. Proven leadership skills in Engineering teams as well as the Army and a history of accountability of complex equipment. Skilled at troubleshooting, systems integration, and collaborating across multidisciplinary teams. Passionate about delivering reliable solutions in demanding, mission-critical applications.

Education

University of Central Florida – Graduated 2025

B.S Electrical Engineering

Concentration: Power & Renewable Energy

Professional Experience

Electrical Engineer / Researcher

Florida Space Institute, Orlando, FL | July 2024 – July 2025

- Designed, assembled, and tested 3+ PCBs and embedded control systems for space-bound and field-deployed hardware.
- Worked with hardware integration and troubleshooting for cooling loops, data acquisition, and user interfaces for a Dust In-situ Manipulation System (DIMS).
- Collaborated with mechanical and materials engineers to develop systems replicating Titan's gravity for environmental data collection on synthetic regolith under varying atmospheric conditions.
- Conducted field validation, hardware troubleshooting, and root cause analysis in lab and real-world simulations.

Electrical Engineering Intern

Phasor Engineering, LLC, Orlando, FL | January 2024 - July 2024

- Delivered electrical system CAD designs under tight deadlines for diverse commercial projects.
- Performed power systems modeling and analysis to support client engineering deliverables.
- Developed an original ampacity calculator based on IEEE standards used in multiple client projects, reducing turnaround by ~ 20%.

Team Leader / Airborne Infantryman

U.S. Army | Vicenza, Italy / Fort Bragg, NC | June 2016 – July 2020

- Led 4-man infantry teams during domestic and multinational operations, responsible for \$2M+ in mission equipment with zero losses.
- Coordinated with NATO and allied forces during joint training and deployment exercises.
- Maintained accountability for high-value equipment including guided missile systems, optics, and heavy weapons platforms.
- Experienced in operating and maintaining complex field systems under adverse conditions.

Technical Tools & Platforms

KiCad | Fusion 360 | AutoCAD | MathCAD | STM32 | MSP430 | Arduino | CAN bus | Matlab | Simulink |

Certifications / Clearances / Awards

- Secret Clearance | Senior Design Showcase Finalist | Phi Theta Kappa Honor Society