

Nathan Bruckner

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SKILLS

- RF & Electrical Engineering: RF systems, GPS/GNSS (C/A code), signal propagation, antenna fundamentals
- Test & Measurement: SDR-based testing, RF validation, test procedure development, spectrum analyzers, oscilloscopes, multimeters
- Programming & Data Processing: Python, MATLAB, C++, Bash
- Software & Simulation: NI Multisim, Xilinx Vivado
- Hardware & Design: PCB design (KiCad), RF simulation, wiring diagrams, system integration
- CAD & Fabrication: Fusion 360, SolidWorks, additive manufacturing, shop tools

EXPERIENCE

PNT Intern, *Integrated Solutions for Systems*, Huntsville, AL Jun '25 - Aug '25

- Developed and modified software-defined radio GPS transmit systems
- Worked with GPS C/A code signal structures
- Generated RF test-transmit datasets and developed scripts to parse & analyze results

Video Communication Sub-Team Lead, *Liberty University Collegiate Rocketry Team*, Lynchburg, VA Sep '24 - Mar '26

- Organized and led a small sub-team responsible for the design and implementation of a system providing live video feed streamed from the rocket in flight to the ground station.

Drone Hobbyist – Self Directed Project Work Jan '15 - Present

- Designed, built, and troubleshooted drones and RC aircraft with integrated RF communication and control systems
- Diagnosed signal interference, power distribution issues, and hardware integration faults using structured testing approaches

EDUCATION

Bachelor of Science in Electrical Engineering, *Liberty University*, Lynchburg, VA May '26

Valedictorian/Salutatorian Scholarship

- GPA: 3.95/4.00
- Relevant Coursework: Circuit Analysis I & II, Signals and Systems, Electronics I & II, Electromagnetic Fields, Communications Systems, Digital Signal Processing, Control Systems, Power Systems

HIGHLIGHTS

Automated Railroad Gauge Spreader

- Cooperated with a multidisciplinary team to design and manufacture a prototype electrical system for an automated, impact-driven gauge spreader.

ADDITIONAL EXPERIENCE

Student Grader, *Liberty University Department of Mathematics*, Lynchburg, VA Jan '23 - May '24

- Handled students' confidential materials with integrity using access controls to ensure privacy.
- Impartially evaluated students' work for quality and accuracy.

Fleet Operations Supervisor, *Westchester Golf Course*, Canal Winchester, OH Jan '20 - Dec '22

- Maintained cart functionality, battery health, and cleanliness with frequent inspections and applied battery-health standards.
- Supervised event logistics and trained 6 new peer-employees, leading to better equipment and logistical efficiency.

Grain Silo Construction Specialist, *Millersport Agriculture*, Millersport, OH Jun '22 - Aug '22

- Utilized diverse tooling and heavy machinery to install rebar, pour concrete, and build grain silos more efficiently.