# Brian Paulsen

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**Driven electrical engineer with a passion for sustainability, strong communication skills, and proven research and project management experience. Seeking a challenging full-time position where I can support organization initiatives and develop innovative solutions to complex problems.**

## Key Skills

**Project Management** - Microsoft Office ~ Jira ~ Revu Bluebeam ~ GitHub | **Language Proficiency** - German ~ Spanish

**Technical Skills and Software** - Python ~ C ~ C++ ~ VHDL ~ MATLAB ~ Simulink ~ PLECS ~ SPICE ~ ROS ~ Microchip Studios ~ Altium ~ Intel Quartus Prime ~ Siemens ModelSim ~ Autodesk Revit

**Elective Coursework** - Electric Drive Systems ~ Digital Circuits ~ Microprocessor Applications ~ Autonomous Robotics ~ Linear Control Systems ~ Smart Grid for Sustainability ~ Electromagnetism ~ Magnetic Materials ~ German in Business

**Core Traits** - Creative Problem Solver ~ Strategic Leadership ~ Accountable ~ Collaborative ~ Initiative ~ Public Speaking

## Education

**University of Florida** (Honors Program) - Gainesville, Florida — Expected Graduation May 2024
- Bachelor of Science in **Electrical Engineering | Minor** in **German | GPA - 3.4**
- *Disney Scholars, Florida Bright Futures Academic Scholar, and Ralph Sias Scholarship Fund recipient*

**Hamburg University for Applied Sciences** (Study Abroad Program) - Hamburg, Germany — March – August 2022
- Lived, studied, and collaborated with students from around the world
- Hands-on experience with German engineering, language, and culture during a study abroad semester

## Research and Work Experience

**Senior Design Project - Magnetoelectric Materials** — **Gainesville, Florida**
University of Florida — January 2024 - May 2024
- Perform faculty-supported research project on magnetoelectric materials for wireless power transfer
- Deliver findings in the form of an undergraduate research paper

**Undergraduate Research Assistant** — **Gainesville, Florida**
University of Florida, SmartDATA Lab — August 2021 - May 2024
- Employed spread signal reflectometry and dynamic time warping to quickly identify faults in large solar arrays
- Publish findings as a peer-reviewed research paper in *IEEE Sensors*

**Facility Asset Management Engineering Intern** — **Orlando, Florida**
Walt Disney Company — June 2023 - December 2023
- Maintained integrity of Walt Disney World's electrical infrastructure
- Conducted electrical audits of working facilities to identify opportunities for improving energy efficiency
- Evaluated candidate EV charger locations for logistical viability and led discussions on sustainable charging opportunities
- Represented FAM Design team in the field and presented findings to team leaders and business partners

**Undergraduate Teaching Assistant** — **Gainesville, Florida**
University of Florida, Department of Electrical and Computer Engineering — August 2021 - May 2023
- Held weekly office hours for mentoring students one-on-one in mastering course concepts
- Guided weekly laboratory periods, graded lab reports, and organized exam review sessions

**Lifeguard** — **Lake Buena Vista, Florida**
Walt Disney Company — June 2018 – January 2023
- Acted as first responder in the event of emergency situations around the pool area
- Leveraged multilingual and communication skills to facilitate positive Guest experiences

## Community Involvement

**University of Florida Engineering Ambassadors** — January 2022 - Present
- Represent Gator engineering through group (20-40 people) tours, service events, and community outreach
- Encourage diversity and inclusion within the College of Engineering as Diversity, Equity, and Inclusion co-chair

**Undergraduate Lecturer — *Mary Shelley's Frankenstein*** — August 2021 - May 2022
- Planned and facilitated class activities for a semester-long university Honors course
- Delivered weekly 50-minute lectures on course material as the primary instructor to 20 undergraduate students

**PRISM Student Honors Magazine — Managing Editor** — August 2020 - May 2022
- Created informative and meaningful articles for ~3000 students in the UF Honors program
- Proofread and copyedited material for publication online and in print