Jacob Lindland

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EDUCATION

University of Florida   **Dec. 2026**

Bachelor of Science in Mechanical Engineering | Minor in Computer Science   **Dean's List | GPA: 3.73/4.0**

- Courses: Mechanics of Materials, Dynamics, Mechanical Design 1&2, Vibrations, Heat Transfer, Design and Manufacturing Laboratory, Computer Aided Graphics & Design, Numerical Methods of Analysis, MATLAB

WORK EXPERIENCE

GE Appliances, a Haier Company   **Sep. 2024 – Dec. 2024**

Manufacturing Quality Engineer Co-op   *Louisville, KY*

- Developed novel factory health analytics, tracking 10,000+ indicators monthly, boosting compliance 80%
- Automated reporting system for electrostatic health analytics, illuminating plant-wide trends, enabling action
- Eliminated 1000+ hrs/year of non-value-added work by automating reports in Excel with Javascript API
- Pitched electrostatic health device improvement project to VP of Manufacturing, securing support & funding

UF Education Research Lab | Mathworks Education Grant   **Jan. 2024 – July 2024**

Undergraduate Lead Researcher   *Miami, FL*

- Developed and deployed 10 week curricula on MATLAB Data Science & AI framework, ML principles
- Wrote 15+ image classification & clustering algorithm example problems to demonstrate algorithm concepts

PROJECTS & PUBLICATIONS

Agricultural Automation and Robotic Perception Lab   **Aug. 2025 – Present**

Undergraduate Researcher

- Engineered custom electric pruner mount for 6-axis arm with appropriate bearings, fasteners, GD&T
- Investigated semi-autonomous image & video data annotation to rapidly provide reinforcement ground truth

Fluid Dynamics Lab Projects   **Aug. 2025 – Present**

Undergraduate Student

- Worked cross-functionally on egyptian-american team to analyse and bi-lingually report experimental data
- Conducted 3 fluid experiments to explore and validate fundamental fluid dynamics concepts

Adapting lunar Regolith for partial In-situ Resource Utilization   **May. 2025 – Present**

Undergraduate Researcher

- Developed novel Lunar regolith PLA matrix composites for rapid manufacturing in lunar habitat construction
- Conducted Instron UTM uniaxial loading tests & statistical analysis on novel Regolith-PLA composites

INVOLVEMENT

Theta Tau Professional Engineering Society   **Sep. 2023 – Present**

President   *Gainesville, FL*

- Directed executive board and managed $150,000+ treasury, spearheading transparency initiatives
- Liaised between national and regional directors, to ensure full compliance to health & safety protocol

Vice President

- Managed 150+ student members across 25+ committees to enable a semester of successful events
- Drove data-based recruitment or our 1000+ rush attendees, and organized first-ever Blood Drive and 5K

SKILLS

- Presentational & team communication, digital process automation, project management, German fluency (C1)
- Programming: 7+ years of Python, Java, Javascript, MATLAB Data Science & AI toolkit, TensorFlow, Git