

Landon Brasky

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landonbrasky.com

EDUCATION

Purdue University, School of Engineering
Bachelor of Science, Industrial Engineering

West Lafayette, IN
May 2027

PROFESSIONAL EXPERIENCE

Allegion

Carmel, IN

Advanced Manufacturing Engineering Intern (2 Summer Terms + Academic-Year Part-Time)

May 2025 – Present

- Built and proposed an automated laser-etching station (structural frame, laser mount, machine-vision cameras) to mark serial numbers and UL labels for a production line, tying a PLC-controlled laser and Cognex vision cameras into a live AI-Assisted Python/SQL tracking system.
- Developed counter-sync logic (TCP communication plus a firmware-level patch) to keep laser, camera, and database counters aligned across 5 product configurations, and diagnosed/fixed a style-switching defect causing serial number mismatches.
- Developed AI-based agents supporting manufacturing equipment maintenance and troubleshooting.
- Evaluated AMR/AGV material delivery options and fork-truck fleet efficiency, and mapped material flow to develop a shelf-relocation plan that reduced production waste.

Trucent Centrifuge Parts & Repair

Noblesville, IN

Technical Projects Intern

May 2024 – August 2024

- Conducted inventory analysis and vendor communications to optimize aftermarket offerings and increase profit margins; improved spindle fitting by designing and manufacturing new lap tools.
- Integrated part data into a new ERP system, organized barcode systems, and tested devices, recording flaws and inefficiencies.

PROJECTS

Automated Equity Screening & Trading Algorithm

Personal Project

- Built a Python algorithm connecting to market-data and brokerage APIs to continuously screen the equity market against custom value/momentum criteria, automating trade execution and fund allocation to rebalance a live portfolio toward top-scoring positions.

Personal Portfolio Website

landonbrasky.com – linked top right

- Designed and built a personal portfolio website to showcase projects and experience (see QR code / link, top right).

LEADERSHIP AND INVOLVEMENT

Salt Company

West Lafayette, IN

Student Leader

May 2025 – Present

- Lead weekly small group meetings and mentor members' personal development, and collaborate with staff on campus-wide outreach initiatives that grew student engagement.

VEX Robotics Competition

Arcadia, IN

Builder, Driver & Team Lead

August 2019 – May 2023

- Co-founded and led the Hamilton Heights High School VEX Robotics Team (5 members), qualifying for the World Championship three times and securing 15 awards (5 Tournament Champion, 5 Performance, 5 Judged).
- Directed design, programming, and competition strategy under strict engineering constraints; placed 7th in Technology Division and 34th overall out of 811 teams at the 2023 VEX Worlds.

RELEVANT SKILLS

- Python (automation, APIs, data pipelines)
- CAD (Fusion 360) & mechanical design
- PLC & machine-vision system integration
- Systems testing, troubleshooting & validation
- SQL / database design
- Cross-functional project leadership
- Power BI reporting & data visualization
- Coding & Circuit Classes