Tiger Li

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Education

University of Missouri – Columbia: Bachelor of Science in Mechanical Engineering — Expected May 2029
Minors: Business, Physics, Aerospace, Mathematics

Mizzou EMS Education Institute: Missouri Emergency Medical Technician License — December 2026

Work Experience

Process Engineer, Back40 Engineering, ~10hrs/wk — **March 2025 – Present**

- Optimized order fulfillment workflow by combining and simplifying kit assembly processes, reducing average order fulfillment time from over 2 weeks to less than 7 days
- Introduced internal work instructions for a $450 RPM sensor assembly, documenting company best practices for repeatability and QA; reduced defect and return rate from approximately one per month to zero
- Developed customer-facing instructions and documentation including hardware setup, software configuration, and troubleshooting for company's newest platform; reducing the number of incoming customer support calls
- Recovered defective PCBs delivered with missing I/O hardware by performing SMT soldering on over 70 units, preventing $12,000 in lost value; implemented PCB validation process at end of line

Extracurriculars

Founder & President, Mizzou Mars Rover Team — **August 2025 – Present**

- Addressing the lack of hands on, team-based robotics at Mizzou by founding and leading a multidisciplinary team of ~20 Engineers to compete in the annual "University Rover Challenge" (URC)
- Coordinate and lead team-wide general body meetings, lead "Arm Manipulation" sub-team by delegating projects and coordinating compatibility of sub-components
- Established overall team direction, culture, and organizational structure, modeling practices used in four different competitive URC Teams by establishing connections
- Led "Finance" sub-team to leverage established connections; networked and communicated with six companies at in-person events, independently raising $1,500 in external company donations

Student Chapter Member, Society of Manufacturing Engineers — **February 2026 – Present**

- Designed and manufactured "Miller's Block" out of aluminum during weekly training meetings, using Fusion 360 CAM software across two setups on 3-axis CNC mill
- Attend multiple manufacturing plant visits with professional chapter members, networking with industry engineers, expanding knowledge of large-scale manufacturing, batch flows, and organizational structures

Projects

Custom FPV Drone

- Built 40+MPH FPV drone with COTS components by researching and assembling motors, ESCs, propellers, video and telemetry hardware; remaining under $150 budget
- Utilized soldering to integrate peripheral components with ESC stack, used "Betaflight" software to perform PID tuning and 5.8GHz radio configuration

TI-84 Calculator Port modification

- Board-level rework of personal calculator by replacing the stock Mini-B port with a modern USB-C connector, standardizing all personal electronics to a single cable

Skills

Design: Fusion 360, SolidWorks, DFM/DFA, LaTeX
Manufacturing: 3-Axis CNC, FDM Printing
Analysis & Control: MATLAB