

Logan Edwards

Mechanical Engineering Student

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SKILLS

- **CAD/CAE** — Experienced in **Autodesk Inventor**, **AutoCAD**, and **Onshape**; familiar with **Revit** and **Ansys FEA**
- **Programming** — Familiar with **C**, **Python**, and **Arduino C**
- **Software** — Experienced in **Microsoft Word/Excel**, **Google Workspace**, and **LaTeX**
- **Hardware** — Familiar with **3D Printing**, **Breadboards**, **Multimeters**, and **Computer Components**

EXPERIENCE

ACE MENTORSHIP PROGRAM | MENTEE

Jan. 2023 — June 2023

- Collaborated with five other students under the guidance of mentors in the Architecture, Construction, and Engineering (ACE) industry to redesign historic Detroit home for the DLBA (Detroit Land Bank Authority) in competition against other student teams
- Produced weekly team schedules and led collaborative Zoom sessions throughout the program, being responsible for enforcing deadlines, presenting research, and certifying project deliverables
- Acquired industry knowledge through extensive use of Revit in producing drawings, section views, renderings, and other technical documents

WALMART | ONLINE GROCERY PICKER, CART ATTENDANT

Jan. 2023 — Present

New Hudson, MI

- Operated in several departments, handling online order fulfillment, ship-from-store packaging, delivery to shipping drivers, and cart returns
- Achieved a grocery pick rate of over 100 items per hour, providing essential support to online fulfillment during busy afternoon and weekend shifts

PROJECTS

4098 FULLERTON AVENUE

- Produced a request for proposal (RFP) for the restoration of historic home, including cost estimations, section views, site plans, and a bill of materials
- Presented a plan involving complete home renovations and repairs to accommodate a 4-person family
- Achieved estimated cost reductions for future residents and increased property value due to energy-efficient additions to housing infrastructure, including a reflective roof, double-paned windows, and modern HVAC

ORNITHOPTER KIT REVERSE ENGINEERING

- Designed, modeled, and assembled *Pathfinders Ornithopter Kit* (model flying machine) in Autodesk Inventor based on physical reference, requiring careful analysis and measurement of system components
- Created a constrained assembly which accurately represented intricate system motion
- Earned a grade of 100% from instructor for overall accuracy and demonstration of CAD skills

ENGINE CAD ASSEMBLY

- Collaborated in groups to model and assemble engine parts according to real-world model
- Utilized collaborative cloud-based CAD software to coordinate with group members and produce a working, parametrically accurate assembly

EDUCATION

UNIVERSITY OF MICHIGAN, B.S. IN MECHANICAL ENGINEERING

Aug. 2023 — Present

Dearborn, MI

SOUTH LYON HIGH SCHOOL | 4.01 GPA

Sept. 2019 — June 2023

South Lyon, MI

- *Cross Country Varsity Captain* — Led a team of 40+ athletes in a successful winning season as team captain
- *Varsity Science & Social Studies Olympiads* — Worked collaboratively and independently to produce projects for competition against other regional Olympiad teams