

# Zachary Salloum

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Mechanical Engineering, International Minor for Engineers*

Ann Arbor, MI

Aug. 2025 – May 2029

- Cumulative GPA: 4.00/4.00
- University of Michigan Regents Merit Scholarship Recipient

### Wylie E. Groves High School

*High School Diploma*

Beverly Hills, MI

Aug. 2021 – May 2025

- Cumulative GPA: 4.71/4.00
- AP Coursework in: Physics, Calculus, Psychology, English, US History, French, Literature, and Economics
- National Honor Society, National AP Scholar, DECA Chapter Co-President, Track and Field Team Captain

## PROFESSIONAL EXPERIENCE

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### Bicycle Mechanic

*D&D Bicycles*

June 2023 – August 2025

Berkley, MI

- Collaborated with team members to maintain a clean, organized, and safe working environment
- Serviced, maintained, and repaired bicycles with a focus on efficiency, quality, and safety
- Assembled new bicycles upon arrival at the shop, adhering to strict quality control guidelines from manufacturers
- Enhanced customer satisfaction by efficiently diagnosing and repairing various bicycle issues

## PROJECTS

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### Custom-Built 3D Printer Project | *Fusion 360, Onshape, VSCode*

June 2023 – August 2024

- Designed an original model for a customer 3D printer in order to produce a machine that operates faster and more accurately than comparable FDM machines on the market
- Utilized Onshape and Fusion 360 to develop a CAD file of the machine
- Specced and installed various electrical components, including a display, main-board, power supply, and external mosfet
- Altered main-board firmware using VSCode to make it compatible with the machine
- Hand-built, tested, and tuned machine to achieve precise results

### D-Stock Electric Boat Project | *Siemens NX*

August 2025 – Present

- Currently engaged in designing an electric outboard motor and steering system for the University of Michigan Electric Boat Team's D-Stock competition boat

## ADDITIONAL

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**Software Experience:** Matlab, C++, VSCode, Fusion 360, Siemens NX, Onshape

**Languages:** Spoken and written proficiency in French

**Relevant Coursework:** Multivariable Calculus, Differential Equations, AP Physics Mechanics, AP Physics Electricity and Magnetism