

ISAIAH KOL

MECHANICAL ENGINEERING SOPHOMORE

isaiahkol37@gmail.com | (802) 369-4956 | Burlington, VT

SUMMARY

Mechanical engineering student with a background in competitive robotics and direct experience designing, fabricating, and iterating mechanical systems rapidly under practical constraints.

EDUCATION

UNIVERSITY OF VERMONT Burlington, VT <i>Bachelor of Science, Mechanical Engineering</i> Expected May 2028	AUG 2024 – PRESENT
<ul style="list-style-type: none">GPA: 3.80 Dean's ListRelevant Courses: Thermodynamics (A); Applied Thermodynamics (A); Advanced 3D Drafting (A+); Statics (A+); Calculus III (A+); Computer Programming I (A); First-Year Design Experience (A).	

PROFESSIONAL EXPERIENCE

OPERATIONS MANAGER (IN-TRAINING) UVM FABLAB	DEC 2025 – PRESENT
<ul style="list-style-type: none">Shadowing current operations manager and transitioning into full leadership role by end of semester.Responsible for coordinating technicians and overseeing daily operation of FabLab and its equipment.Driving workflow, equipment, and space improvements to optimize lab operations and engagement.Balancing operational leadership with full technician responsibilities.	
TECHNICIAN UVM FABLAB	SEP 2025 – DEC 2025
<ul style="list-style-type: none">Operated 15+ 3D printers and other fabrication equipment for student projects and university research.Supported clients with CAD, projects, and in-house equipment use.Supported lab organization, safety practices, and routine machine maintenance.	

LINE COOK & COUNTERWORKER DARTMOUTH COLLEGE DINING SERVICES	AUG 2022 – AUG 2024
<ul style="list-style-type: none">Balanced customer service with food prep and cooking in a fast-paced dining environment.	

ADDITIONAL EXPERIENCE

GAP-YEAR: ROBOTICS COACH THETFORD ACADEMY ROBOTICS TEAM	AUG 2023 – JUN 2024
<ul style="list-style-type: none">Mentored students aged 12-18 in iterative design processes, both in CAD and hands-on prototyping.Instructed and supervised safe, proper operation of tools and equipment.	
ROBOTICS TEAM VEX ROBOTICS COMPETITION	SEP 2017 – JUN 2023
<ul style="list-style-type: none">Collaboratively responsible for design, construction, and technical documentation.Four-time competitors at VEX World Championship; 2023 NH/VT State Champions; recipients of three Design Awards and three Excellence Awards at the regional (NH/VT) level.	

INTERNSHIP AT HYPERTHERM & FUJIFILM DIMATIX LEBANON, NH	AUG 2021 – JAN 2022
<ul style="list-style-type: none">Gained exposure to manufacturing practices and engineering environments.Built foundational skills in CAD and CNC/manual machining through guided projects.	

SKILLS

CAD: SolidWorks, AutoCAD

Fabrication: FDM 3D Printing, Design for Manufacturability, Basic Machining, Automotive & Electrical Repair

Software: Python, Microsoft Excel, Bambu Studio, PrusaSlicer