

ISAIAH KOL

MECHANICAL ENGINEERING SOPHOMORE

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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">Promoted to Operations Manager; shadowing current manager with full leadership transfer by May 2026.Coordinate technicians and oversee day-to-day lab and equipment operations.Drive workflow, equipment, and space improvements to optimize lab efficiency and engagement.Balance leadership duties 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: Microsoft Office Suite (Excel proficient), Python, PrusaSlicer, Bambu Studio