

JAD MENKARA

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EDUCATION

Vincent Massey Secondary School

Honour Roll w/Distinction, 4.0 GPA

Sep 2022 - Jun 2026

Windsor, ON, Canada

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Kotlin

Software: Fusion 360, Autocad, Inventor, EasyEDA, KiCAD, Autodesk CFD, Unity, Figma, Davinci Resolve, Cura

Technologies: React

Other: Soldering, 3D printing, Calculus/Vectors

EXPERIENCE

Remote Research Intern

Health Research Innovation Centre | neuroArm Medical Robotics Project

Jun 2024 – Present

University of Calgary

- Designing a novel neurosurgical device remotely
- Creating concept sketches, researching novel robotic solutions, collaborating with engineers on prototype design

Outreach Organizer

Hack Canada

Aug 2024 – Present

University of Laurier

- Organizing a national hackathon with over 350 hackers in 2025
- Currently contacting hundreds of companies to facilitate sponsorship deals

Chapter President

Hack Club

May 2024 – Present

Vincent Massey Secondary School

- Currently developing lesson plans in PCB Design, CAD software, kinematics, and other engineering concepts to prepare students for hackathon competitions
- Currently designing media and merchandise through Figma design software for social media advertising

2x Canada Wide Science Fair Finalist

Youthscience Canada

May 2022, May 2023

Fredrickton, NB | Edmonton, AB

- Selected twice as one of 400 national finalists for the development of scientific research as a young scientist
- Received \$2000 to cover travel costs and participation fees

PROJECTS

Bionic Prosthesis | *Python, MicroPython, Fusion 360, EasyEDA, 3D-printing*

Jul 2023 – Mar 2024

- Created a modular CAD design in fusion 360 via joints and master sketch techniques
- Manufactured a novel bionic arm through 3D printing and Cura Slicing software
- Designed and soldered a custom PCB carrying a maximum of 20 Amperes of current connected to an SZBK07 buck converter regulator module, a Raspberry Pi Pico Microcontroller, and multiple peripherals

Nerf Gun w/Computer Vision | *Pyfirmata, Arduino, YOLOv8, Fusion 360, 3D printing*

Oct 2023 – Present

- Designed a carriage to house and aim a gell-blaster nerf gun via servo motors using Fusion 360
- Used a pre-trained AI model with Yolov8, Python, and Pyfirmata to track faces and aim the nerf gun accordingly

AWARDS

Windsor Regional Science Fair (WRSTEF)

Mar 2022 – Mar 2024

- 3x Gold Excellence Award
- 3x Professional Engineers Ontario Award
- 3x An-Noor Inovation Award
- Sanofi Biogenius Canada Award
- Legal Focus LLP Scientific Writing Award

Canada Wide Science Fair (CWSF)

May 2023

- Bronze Excellence Award: Top 60 projects in grades 9-10 nationally
- \$3000 in university entrance scholarships

CEMC UWaterloo Math Contests

Mar 2024

- Galois Distinction Award