




Jahangir Abdullayev

MECHATRONICS ENGINEERING STUDENT AT WESTERN

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SKILLS

SOFTWARE

- **SolidWorks** and **Onshape** used extensively for various projects and experiences
- Past designs involved **FEA analysis**, **BOM creation**, and use of **DFM/DFA principles**
- Proficient in **Adobe Illustrator** and **Photoshop**
- Excellent understanding of **OOP programming** through **Python**, **C++**, and **Java**
- Advanced level in Front-end Web Development using **ReactJS**

MECHANICAL

- Expert in use of **3D Printing** as a method for additive manufacturing
- Used **laser cutting** and **CNC** for rapid prototyping
- Proficient with power tools

ELECTRICAL

- Experience making custom **PCBs** and **.gerber** files for production
- Soldering and wiring

AWARDS

Western Scholarship of Excellence

Issued Sep 2022

Awarded Western's top entrance scholarship offered to the **top 250** admission candidates across all faculties

EXPERIENCE

FAST Research Group | Undergraduate Researcher | London, ON

Sep 2022 - Present

- Researcher at the Free Appropriate Sustainable Technology (FAST) Research Group at Western University under the supervision of Dr. Joshua Pearce
- Current project consists of creating DIY Solar Panels using the **Hangprinter v4**
- Finalized construction and calibrated the Hangprinter v4, a niche RepRap 3D printer design
- Made use of **Onshape** and **OpenSCAD** to put projects into CAD for 3D printing of parts
- Created **analytic breakdowns** to display test results and variances

FIRST Robotics Team | Sub-Team Lead | Waterloo, ON

Aug 2018 - May 2022

- Developed **technical CAD drawings** for mechanical mechanisms on the robot
- Taught fellow teammates **SolidWorks** and the use of **power tools**
- Led a design team in the **prototyping** and creation of the 2020 robot's intake
- Modernized and maintained the team website using **WordPress** and **JavaScript**
- Designed team-branded promotion items using **Adobe Illustrator** and **Photoshop**

Bluevale's Electric Car Team | Mechanical Lead | Waterloo, ON

Sep 2021 - Jun 2022

- Led students in engineering a front-wheel-driven electric race car
- Used the **design process** in creating **prototypes** and the final steering wheel for the 12v car
- Used **Onshape** to create designs for **3D printing** and **machining** of various parts
- Operated stationary power tools and CNC machines for the fabrication of the race car
- Created **CAD drawings** for a new front-wheel car that would be constructed the next year

Value Village | Sales Floor Team Member | St. Jacobs, ON

Feb 2021 - Sep 2021

- **Engaged with customers** one on one
- Operated the register with payments through both **cash** and a **POS machine**
- Assisted production with **accepting donations** and **helping fund drives**

University of Waterloo's ESQ Camp | Camp Leader | Waterloo, ON

Jul 2019 - Sep 2021

- **Taught lessons** to and **ensured the safety** of children ages 8-12
- **Created lesson plans** and related materials around **STEM** themes
- Ran public workshops as part of the outreach team

EDUCATION

Western University | Bachelor of Engineering

Sep 2022 - May 2027

- Excellent academic standing
- Preparing to enroll in the **Mechatronic Systems Engineering** stream for the second year