Parsa Ahmadi

p3ahmadi@uwaterloo.com | linkedin.com/in/parsa-ahmadi2006 | github.com/ParsaA2006 | Personal Website

Education

University of Waterloo **Expected Graduation: Apr 2029**

Bachelor of Applied Science in Mechatronics Engineering | Minor Artificial Intelligence *Waterloo, ON*

- President's Scholarship of Distinction | **GPA: 4.0/4.0**

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, C++, C#, SQL, MATLAB, ROBOTC
Developer Tools: VS Code, Jupyter Notebook, Git, GitHub, AWS, Docker
Technologies/Frameworks: React, React Native, ASP.NET, .NET Core, Node.js, Angular, Blazor, Tailwind CSS
Design Software: SOLIDWORKS, AutoCAD, Siemens NX, Fusion 360, Figma

Experience

Neurosnap **Mar 2025 – May 2025**

Full Stack Developer Intern *Toronto, ON*

- Developed a **responsive website** for OpenBioML using **HTML**, **CSS**, and **JavaScript** to ensure seamless functionality across multiple devices, enhancing user experience and resulting in a **30%** increase in the user base.
- Maintain and update the OpenBioML and Neurosnap websites by fixing bugs and adding **new features** using **JavaScript**, **HTML**, and **CSS** to continuously improve user experience and functionality.
- Created a **database** of millions of chemical compounds, leveraging **JavaScript** to enable efficient data retrieval and analysis, facilitating research for multiple **Fortune 100 companies**.

Linamar Corporations **Jan 2025 – Apr 2025**

Mechanical Engineer Intern *Guelph, ON*

- Reviewed and implemented **Engineering Change Notices** (ECNs), conducted capability tests, and assisted in updating process dimension sheets, tool paths, and **SolidWorks** documentation to improve manufacturing accuracy and efficiency.
- Led the transition from traditional AIAG-style **FMEAs** to the new **AIAG-VDA FMEA** format for multiple customers, including **General Motors** and **Ford**, ensuring compliance with updated industry standards.
- Collected and **analyzed production data** that directly enabled the successful **automation of a manual operation**, resulting in annual **cost savings** of over **$10,000**.
- **Designed** models and professional drawings in **SolidWorks** for multiple components, such as gauges and fixtures, **reducing** part costs by up to **40%** compared to original purchase prices.
- Led the **redesign** of **machine work instructions** by collaborating with multiple departments to implement a structured troubleshooting guide, improving clarity and efficiency by **20%.**

UW Blueprint **Oct 2024 – Dec 2024**

Project Developer *Waterloo, ON*

- Added features to the UW Blueprint website's application page to improve functionality using **React**, **JavaScript**, **HTML**, and **CSS**.
- Gained experience following the **software development flowchart**, including designing, implementing, testing, reviewing, and deploying code in a collaborative environment.

UWaterloo Alternative Fuels Team (UWAFT) **Sep 2024 – Dec 2024**

Mechanical Design Member – Chassis Team *Waterloo, ON*

- Co-designed structural components of the EcoCar chassis using **Siemens NX** to **decrease material costs** by **15%**.
- Performed **Finite Element Analysis (FEA)** on the chassis to evaluate stress distribution and ensure compliance with safety and performance requirements.

Projects

Waterloo Management System | *C#, .NET, SQL* **Mar 2025**

- Designed and developed a Waterloo teacher and student **database website**.
- Built a backend with **C#** and **.NET**, implementing authentication and role-based access control.
- Engineered a **database** using **SQL** to store data and create accounts.

Tic-Tac-Toe Solver Robot | *ROBOTC (C++), Python* **Dec 2024**

- Designed and programmed an **autonomous Tic-Tac-Toe robot** that analyzes the game board and executes optimal moves with a **100% win/draw rate.**
- Engineered a **ROBOTC** algorithm that converts **sensor inputs** into a format compatible with a **Python Tic-Tac-Toe solver**, enabling the robot to calculate and execute the most effective move in **under 2 seconds** with **100% accuracy.**
- Enhanced robot performance by implementing a **linear gear system** for precise movement, **reducing** positioning errors by **30%**, and optimizing solve times.

University of Waterloo
200 University Ave. West
Waterloo Ontario Canada N2L3G1

05/02/2025

Undergraduate Unofficial Transcript

Name: **Ahmadi, Parsa**
Student ID: **21131398**
Ontario Education Nbr: **313597254**

Beginning of Undergraduate Record

Fall 2024

Program: Mechatronics Engineering, Honours, Co-operative Program
Level: 1A Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
CHE	102	Chemistry for Engineers	0.50	0.50	90
MATH	115	Linear Algebra for Engineering	0.50	0.50	97
MATH	116	Calculus 1 for Engineering	0.50	0.50	100
MTE	100	Mechatronics Engineering	0.75	0.75	95
MTE	121	Digital Computation	0.50	0.50	91
			In GPA	Earned	
Term GPA		94.64 Term Totals	2.75	2.75	
Cumulative GPA		94.64 Cumulative Totals	2.75	2.75	

Academic Standing: Excellent Standing Effective 01/21/2025
Term Honours: Term Distinction

Winter 2025

Program: Mechatronics Engineering, Honours, Co-operative Program
Level: 1A Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	1	Co-operative Work Term	0.50	0.00	CR
PD	19	Tactics for Workplace Success	0.50	0.00	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.00	
Cumulative GPA		94.64 Cumulative Totals	2.75	2.75	

Spring 2025

Program: Mechatronics Engineering, Honours, Co-operative Program
Level: 1B Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
MATH	118	Calculus 2 for Engineering			
MTE	111	Structure and Properties of Materials			
MTE	119	Statics			
MTE	120	Circuits			
MTE	140	Algorithms and Data Structures			

Milestones

Date Completed	Description	Status
09/10/2024	Workplace Hazardous Materials Information System	Completed
12/31/2024	Undergraduate Communication Requirement	Completed
04/30/2025	Work Term 1	Completed

Scholarships and Awards

2025 University of Waterloo President's Scholarship of Distinction

End of Undergraduate Unofficial Transcript