

# MANI RASHAHMADI

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## EDUCATION

### University of Guelph

B.Eng - Systems Engineering & Computing - Co-op

Guelph, ON

September 2022 – May 2027

### TryHackMe

Cryptography, Web Application Development/Pentesting, Network Maintenance/Pentesting, CTF Competitions

Online

### Udemy Course

Mastering Go Programming

Online

- [Certificate Link](#)

## SKILLS OVERVIEW

**Programming Languages:** JavaScript, Python, C, Java, SQL, Go, Assembly, VHDL

**Technologies:** SQL, Git, REST API, NumPy, WordPress, Linux, PyQt, Arduino, Raspberry Pi, Docker, LaTeX

**Software:** Microsoft Suite, JetBrains Suite, AutoCAD, SolidWorks, Xilinx ISE Design Suite

**Language Skills:** English, Persian, Kurdish, Turkish, Arabic

**Machining Skills:** Milling, Welding

## EXPERIENCE

### IT Admin/Developer

Zamand Co.

Tehran

September 2019 - November 2021

- Set up and administer internet/intranet infrastructure, accounting web and email servers.
- Performed data backups and disaster recovery operations.
- Diagnose, troubleshoot, and resolve hardware, software, or other network/system problems
- Train people in computer system use.

## PROJECTS

### Software

- **Personal Website:** Javascript application to represent online portfolio using **React**
- **CineFile:** Python application to organize and classify film libraries using an **IMDB API** and **PyQt** for UI.
- **Assembly:** Reverse Engineering, Debugging, and Developing Software using **Assembly (x86 and x64)**
- **LaserFischeFPS** : Developed a File Processing System where it takes a **JSON** file as input and operates on a Local and Remote filesystem on the LaserFische remote repositories.
- **8-bit ALU** : Designed an 8 bit Arithmetic Logic Unit with a team of 3 and implemented it unto a **Spartan 6 FPGA Board** using **Xilinx ISE** Design as a project for Digital Design course.
- **Firebase To-Do List** : Created a simple to-do list utilizing the **Firebase Cloud Functions** and **User Authentication** at a **Google Student Developer Workshop**.

### Hardware

- **TBWC** : Autonomous mini-vehicle, capable of moving and navigating a path, equipped with a slingshot capable of shooting a projectile.
- **Toy Projectile** : Worked with a team of 4 in the design process and manufacturing a functional collapsible 3D-printed toy rocket using **SolidWorks** capable of launching a projectile.
- **Cube Within a Cube** : carved a cube trapped within another cube, utilizing a milling machine, as a project to get approval to use the machinery on campus.

## ACADEMIC INVOLVEMENT

**Formula SAE:** Member in the software team, helped in developing an automatic verification and on-boarding system for new members.

**The Ontarion:** Volunteer writer for the official campus newspaper.

## OTHER EXPERIENCES

### Content Creator/Editor

Adwhere Studios

January 2020 - May 2020

Tehran

- Created short form Video Content
- Wrote articles about business products/services.
- Trained people in computer system use.

### Construction Team

SP Construction

May 2023 - August 2023

Ottawa

- Apprentice Painter

### Kitchen Staff

Creelman Cafeteria

September 2023 - Present

Guelph

- Line Cook