

# ARMGHAN HAIDER

## 3A | Mechanical Engineering Student

### Personal Information

#### Phone

780-880-5666

#### Email

[a32haide@edu.uwaterloo.ca](mailto:a32haide@edu.uwaterloo.ca)

#### LinkedIn

[linkedin.com/in/armghanhaider/](https://www.linkedin.com/in/armghanhaider/)

#### Website

[www.armghanhaider.com](http://www.armghanhaider.com)

### Software Proficiency

#### SolidWorks

2+ years

#### Siemens NX 12.0

1 year

#### Inventor

1.5 years

#### AutoCAD

2+ years

#### React JS

0.5 years

#### VBA & Python

1.5 years

### Skills

- Project Management
- Microsoft Excel
- GD&T
- Catia v5
- DFM & DFA
- PLC Ladder Logic
- Fluent written & verbal communication

### Education

**B. Applied Science (B.AS)** 2016 - 2021

**University of Waterloo**

Waterloo - ON

### Extra-Curricular Activities

#### UWAF - Design Team

- Poster Design
- Drive Shaft Research
- Mounts and hinge designs

### Work Experience

#### Support Engineering

Jan-2019 to Apr-2019

##### Shoplogix - Oakville, ON

- Diagnosed & debugged system bugs and issues to support both the developers & customers
- Developed **automated scripts** to generate unique codes & identifiers to increase **efficiency** and reduce response time by 45%
- Implemented features to a **complex C#** project to enhance functionality, reducing search time from ~2hrs down to ~8 minutes (**a 93% improvement**)
- Configured hardware communication electronics to work with **Modbus** and **MQTT**, which allowed new clients to access Shoplogix

#### Process Engineering

May-2018 to Aug-2018

##### Anderson Corp. - London, ON

- Managed **project budgeting** which included **parts ordering**, **hiring subcontractors** & monitoring **workflow**
- Oversaw multiple projects at a time each requiring **design**, **fabrication**, and **implementation** expertise
- Designed custom racks & hinges on **SolidWorks** and **Inventor** to reduce parts damage by 10% , saving Andersen \$35K annually
- Implemented 6 sigma method to promote lean manufacturing practices

#### Factory Administrator

Jan-2017 to Dec-2017

##### Nestle Canada - Mississauga, ON

- Created **parts & assemblies** in Solid-Works for visual representation and design purposes
- Worked with **Auto-CAD** to create safety maps to identify high-risk components in the processing lines and equipment

### Side Projects

#### Autonomous Utility Vehicle (AUV) | Solidworks, PID Control, C/C++

- **Designed & developed** code for an autonomous vehicle with obstacle sensing and averting capabilities using Arduino C
- Functional **FEA model** of the **AUV** parts to determine structural strength and reliability

#### Engine Model | Solidworks, Isometric Drawings, Large Assemblies

- Conceptual design of a V6 engine using advanced tools & large assemblies in SolidWorks
- FEA analysis to determine viability and performance

#### Portfolio Website | JavaScript, React Js

- Used **JSX** & **React** to build a website that displays projects, skills and interests with pictures & animations