Ghassan Al Assadi

Metal Engineer

Contact

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LinkedIn
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GitHub
https://github.com/ghassanalassadi

Technical Skills

HTML

CSS

JavaScript

Git

Visual Studio Code

Soft Skills

Fast learner

Willingness to learn

Adaptability

Teamwork

Written Communication

Integrity

Interests

Programming

Arduino

Machine Learning, Artificial Intelligence and Neural Networks

Currently working as a metal engineer but looking to change careers into software engineering. Willing to work and willing to learn. Able to work in a team.

Experience

Hayman Industries Pty Ltd
June 2021 – current
Metal Engineer (Full-Time)

- Fabricated metal parts using various machinery such as band saw, pedestal drills and power press.
- Operating and maintaining a Fanuc welding robot.
- Programming of the welding robot.
- Operating CNC Drill Line and Lathe.
- Altering G&M code where necessary.
- Understanding technical engineering drawings.
- Documentation of work orders and time sheet on a regular basis.

SSI Schaefer
July 2019 – June 2021
Fault Chaser and General Hand (Casual)

- Helped repair basic faults of machinery.
- Performed stock take on parts available at warehouse.

Education

Coding Bootcamp, University of Sydney and Trilogy Education Services
May 2022 – Oct 2022

Bachelor of Engineering (Honours) in Robotics and Mechatronics, Western Sydney University
2016—2021

- GPA: 5.969
- Dean's Merit Award
- Graduated in 2022

Academic Projects
2019-2020

COMPUTER-VISION GUIDED ROBOTIC WORKSTATION

Major project. Worked with a group to create a robotic workstation that could organise objects using features such as shape and colour. Workstation consisted of robotic arm, conveyor belt, laser sensor and camera. Worked mainly on the report but assisted with programming where necessary. Used MATLAB for AI and Arduino Mega for robot and conveyor belt control.

AUTONOMOUS CAR

Thesis project. Worked on my own to create a self-driving car. Using Python in conjunction with the libraries OpenCV and TensorFlow, a neural network was created to detect various road signs. An Arduino Uno was used to control the car. Neural Network training was attempted on a Raspberry Pi but switched to Windows due to some technical issues.