Oliver Weinzettl

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Education

Blackburn High School — Blackburn, VIC
Graduated 2024

Bachelor Engineering Monash (First year Second semester)
Units completed: ENG1090, ENG1011, ENG1012, FIT1045, FIT1008

Experience

Software Engineering Team Member — Monash Connect Autonomous Vehicle

Contributing to the ITS sub team at Monash Connected Autonomous Vehicle (MCAV), where I've been gaining hands on experience with electronics, and software development.

Projects

Sendometer – Driving Data Logger

Built an ESP32 based device to log speed, G forces, altitude, and GPS data using sensors (MPU6050, BMP388, GY NEO6MV2). Data was stored on an SD card and visualised post drive via a Streamlit dashboard. The device also has real time status indication with an RGB LED.

Tech: ESP32, Python (Streamlit), Arduino code, MPU6050, BMP388, GPS, SD storage

3d Connect 4

https://github.com/olibusiness/3D-Connect-4

Developed using Pygame and Python, this project offers two distinct game modes: a two player mode for friendly competition and a single player mode against an AI opponent. The AI utilises. the minimax algorithm to strategically evaluate potential moves and provide a challenge for players.

NBA salary predictor

https://github.com/olibusiness/Nba_AI

This project used Python to forecast NBA player salaries by using historical player performance. data. The project involved substantial data manipulation and cleaning, followed by the implementation of a Random Forest regression model. This machine learning model was trained on the historical data to identify patterns and relationships between player statistics and their corresponding salaries. By applying this model, a user could input what key statistics they believed they could achieve in the NBA and get a salary prediction.