Quinton Austin

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PROFESSIONAL EXPERIENCE

Vertically Integrated Projects **Undergraduate Research Assistant** **West Lafayette, IN** **08/23 – Present**
- Working with a software team to develop autonomous UAV navigation
- Using Python and Pytorch to furnish deep learning models for drone autonomy utilizing computer vision
- Utilizing the YOLO framework for boundary detection

Waldrich Siegen **Software Engineering Intern** **Siegen, Germany** **02/23 – 04/23**
- Developed Microsoft Blazor application with the use of C# and HTML to help clients view machines performance in real time
- Integrated machine data with matterport API a 3D modelling program
- Cut down on expenses related to clients traveling to see the machine through implementation of this data

Maschinenfabrik Herkules **Sales Engineering Intern** **Siegen, Germany** **05/22 – 08/22**
- Proofing contracts stipulating delivery and construction of roll grind machine set for delivery to India
- Handled translation of presentations to be delivered to international customers
- Worked with a team to optimize the assembly process of new monolith beds

Autonomous Motorsports Purdue **Undergraduate Research Assistant** **West Lafayette, IN** **08/20 – 05/21**
- Authored programs in MATLAB to optimize engine throttle
- Built a program that models the Pacejka tire model allowing the user to analyze the forces that each tire undergoes while the vehicle is in motion
- Designed parts that were prepared to be machined for use on autonomous car
- Participated in the Purdue Research Expo

PROJECTS

Data Science Project: Real Estate Price Prediction
- Engaged in Kaggle's "House Prices: Advanced Regression Techniques" competition, focusing on the application of machine learning to predict real estate prices.
- Built a predictive model using a Random Forest Regressor, employing an 80-20 training-validation split to ensure robust training and validation of the model.
- Validated the model's performance using Mean Absolute Error (MAE) as the key metric, fine-tuning the model to minimize prediction errors.

Machine Learning Project: Stock Price Predictor
- Developed a machine learning model to forecast stock prices using Python, pandas, scikit-learn, and keras.
- Processed historical data and engineered features with financial indicators for predictive modeling.
- Evaluated models including Linear Regression and LSTM, optimizing with cross-validation.
- Achieved improved prediction accuracy, providing insights for data-driven investment decisions.

EDUCATION

Georgia Tech   **Atlanta, Ga**   **Present**
- Seeking Master of Science in Computer Science

Purdue University   **West Lafayette, IN**   **08/20 – 05/24**
- Bachelor of Science in Mechanical Engineering