

# Quinton Austin

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## PROFESSIONAL EXPERIENCE

<b>Vertically Integrated Projects</b>	<b>Undergraduate Research Assistant</b>	<b>West Lafayette, IN</b>	<b>08/23 – Present</b>
<ul style="list-style-type: none"><li>Working with a software team to develop autonomous UAV navigation</li><li>Using Python and Pytorch to furnish deep learning models for drone autonomy utilizing computer vision</li><li>Utilizing the YOLO framework for boundary detection</li></ul>			
<b>Waldrich Siegen</b>	<b>Software Engineering Intern</b>	<b>Siegen, Germany</b>	<b>02/23 – 04/23</b>
<ul style="list-style-type: none"><li>Developed Microsoft Blazor application with the use of C# and HTML to help clients view machines performance in real time</li><li>Integrated machine data with matterport API a 3D modelling program</li><li>Cut down on expenses related to clients traveling to see the machine through implementation of this data</li></ul>			
<b>Maschinenfabrik Herkules</b>	<b>Sales Engineering Intern</b>	<b>Siegen, Germany</b>	<b>05/22 – 08/22</b>
<ul style="list-style-type: none"><li>Proofing contracts stipulating delivery and construction of roll grind machine set for delivery to India</li><li>Handled translation of presentations to be delivered to international customers</li><li>Worked with a team to optimize the assembly process of new monolith beds</li></ul>			
<b>Autonomous Motorsports Purdue</b>	<b>Undergraduate Research Assistant</b>	<b>West Lafayette, IN</b>	<b>08/20 – 05/21</b>
<ul style="list-style-type: none"><li>Authored programs in MATLAB to optimize engine throttle</li><li>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</li><li>Designed parts that were prepared to be machined for use on autonomous car</li><li>Participated in the Purdue Research Expo</li></ul>			

## 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

<b>Purdue University</b>	<b>West Lafayette, IN</b>	<b>08/20 – Present</b>
<ul style="list-style-type: none"><li>Seeking Bachelor of Science in Mechanical Engineering GPA: 3.4</li><li>Seeking Minor in Global Engineering Studies, GEARE Program, German</li></ul>		