Andrew Gerstenslager

gerstead@mail.uc.edu | 330-696-3493 | www.linkedin.com/in/andrew-gerstenslager

EDUCATION

Master of Engineering, Artificial Intelligence & Bachelor of Science, Computer Engineering 2019-2024
University of Cincinnati, Cincinnati, OH GPA: 3.60

- ***Minor:*** Finance

EXPERIENCE

Tensorflow & Keras April 2021

- Self studied documentation to implement supervised learning with neural networks in datasets including iris, handwritten digits, and cats vs dogs images

Algorithmic Trading Independent Study January 2022-Present

- Implemented Scikit-learn to train three ML models to predict future stock movements using indicator data
- Used Python (Matplotlib, Pandas) to prove the efficacy of academic papers outlining trading strategies
- Applied strategies to live paper-trading systems with TD-Ameritrade and Alpacca's APIs for data and trades

L3Harris FOS, Cincinnati, OH

Computer Engineering Co-op III January 2022-Present

- Fixing bugs as well as updating and improving old UI's for .NET applications
- Transferred code repository from SVN to Git to improve team productivity as well as trained members in git

Computer Engineering Co-op II May-July 2021

- Devised machine learning system for failure prediction using Python (Scikit-Learn, Pandas, and Matplotlib)
- Created tools to make structured datasets from L3Harris' manufacturing database using SQL and Pyodbc

Computer Engineering Co-op I May 2020-January 2021

- Developed software for four test equipment programs with a GUI to interface and control the tester
- Built a .NET application to read XML files and convert/export them into HTML for readability

LEADERSHIP AND INVOLVEMENT

UC Robotics Team August 2019-Present

President (May 2021-Present)

- Led design, construction, and programming of autonomous vehicle to navigate a course
- Designed a system using ROS to communicate between devices on the robot using serial communication

Treasurer (May 2020-May 2021)

- Used OpenCV to identify and locate tennis balls using live camera feed
- Approved and documented all team purchases and wrote a $6000 annual budget proposal
- Documented code using Doxygen to improve readability of robot's codebase

Kappa Sigma Fraternity November 2021-Present

Assistant Grand Treasurer (December 2021-Present)

Theta Tau Professional Engineering Fraternity January 2020-Present

Corresponding Secretary (December 2021-Present)
Professional Development Chair (May 2021-December 2021)

Eagle Scout, Troop 123 August 2009 - August 2019

SKILLS

Programming: Python, ROS, C++, SQL, C# (.NET), VBA, XML, XSL, HTML, Matlab, Java, LabVIEW
Software: Solid Edge, Microsoft Excel, Microsoft Visio, Linux, Altium
Hardware: Motor Controllers, Raspberry Pi, Arduino, Sonar Sensors, soldering, oscilloscope, signal generator