

HUNTER HAGLID

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EDUCATION

Purdue University, West Lafayette, IN

Bachelor of Science, Computer Science Honors, Mathematics

May 2024

GPA: 3.95

EXPERIENCE

Research Assistant - Purdue University, West Lafayette, IN

May 2021 - Present

- Led a subteam of 6 researchers to develop a control system for an autonomous object-tracking drone
- Integrated a neural network for object recognition into a ROS node for object tracking
- Simulated drone behavior through software-in-the-loop simulations in Gazebo

Software Co-Lead - World Competition Underwater Vehicle Team

September 2020 - Present

- Engineered an autonomous control system for an underwater vehicle using OpenCV and ROS
- Implemented Agile software development methodologies using Jira to improve productivity, delegate tasks between 11 members
- Created a tool for stitching photos of an underwater object into a continuous photomosaic map

Software Developer - Youndle.com LLC., Valparaiso, IN

February 2021 - August 2021

- Wrote Django unit tests for models and REST API's
- Designed page for business users with HTML5, CSS and Javascript

PROJECTS

Autonomous Underwater Vehicle Control System

January - February 2021

A control system implemented in ROS allowing an underwater vehicle to follow pipes at a constant depth.

- Wrote an algorithm to recognize pipes in an underwater image and plot trajectory using OpenCV and NumPy
- Implemented a ROS node to use the algorithm to autonomously pilot the drone from the camera feed

GoTrainer - Computer Vision for Recording Games of Go

August 2021

Used OpenCV and a Raspberry Pi camera to record Go games, analyze them, and upload them to a database.

CO2View - Carbon Emissions Data

January 2021

Developed a Django/React.js web app that provides a car's emissions data from a photo of a license plate.

Dash-It Live (1st Place Hello World Hackathon)

October 2020

Created a Django web app that predicts dining hall wait time using a Raspberry Pi to count Bluetooth devices.

3D Truss Simulator

December 2019

Wrote a physics engine in C# to simulate indeterminate trusses, and visualized them using Unity3D.

CONFERENCE PRESENTATIONS

- Low-Power Object Tracking in Autonomous Drones - Purdue Summer Research Symposium

August 2021

AWARDS & HONORS

- Purdue Corporate Partners Program Scholarship
- Dean's List and Semester Honors
- 1st Place - Purdue ACM AI Handwritten Digits Classifier Competition (out of 11 teams)
- 1st Place - Purdue Hello World Hackathon (out of 55 teams)
- AIME Qualifier, Competitor

April 2021
December 2020, May 2021
November 2020
October 2020
Feb 2020

TECHNICAL SKILLS

Languages

Experienced: Java, C, Python
Proficient: Javascript, C#, Julia, SQL

Libraries and Frameworks

Experienced: NumPy, OpenCV, Django, React.js
Proficient: Tensorflow, Keras

RELEVANT COURSEWORK

Current: Analysis of Algorithms, Systems Programming, Numerical Methods, Probability

Complete: Data Structures & Algorithms, Computer Architecture, Object-Oriented Programming, Programming in C
Linear Algebra I & II, Ordinary Differential Equations, Introduction to Statistics