

CONOR GAGLIARDI

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Resume Objective

Seeking internships or research experience with Machine Learning applications pertaining to the following: Autonomous Systems, Computer Vision, Deep Learning, Robotics, Aerospace / UAS software, Cybernetics.

Employment

Professor Dennis Delgado (SPAS at RIT)

Software Developer - Studio Assistant

Oct. 2022 to Current

- Created systems using various techniques such as Principle Component Analysis to extract "Eigenfaces" from multitudes of face images pulled through NN processing of several films. This output an "average face" that is combined from the most common facial features within a given film.
- Utilized Python and OpenCV for motion tracking and object detection in order to provide Professor Delgado with a medium to create Projects and Creative Exhibits related to the relation of Computer Vision and people of color.
- Created a system for applying different tracking techniques to input videos, and exporting results to video files for further effects, modifying functionality as requested.

Celtec Technologies

Computer Science Purple

Aug. 2021 to Dec. 2021

- Created a program to normalize complex data sets from lithium ion battery testing equipment using the Python libraries NumPy, Pandas, and Matplotlib allowing for the transformation of massive data outputs from several battery testing machines with different output file formats into a standardized, coherent, and presentable form.
- By employing products from the software I produced, the company was able to be successful in three distinct presentations for grants and to continue receiving funding for ongoing projects.
- In order to help the business' scalability choices, I also worked on investigating potential AWS implementations and created white papers on the subjects of database and machine learning integration.

Special Operations Command - Central Command Deployment

Director of Intelligence / Lead Intelligence Analyst

2020 to 2020

- Attached to SOCCENT and filled two roles;
 - Director of Intelligence for task force operations and activities in Central Asia and Egypt.
 - Lead analyst for intelligence related to Syria, Jordan, and Lebanon.
- In both roles, directly supported the Task Force Commander, US Embassy in Amman, and Special Operations Command - Central Command. Providing leadership with a timely and dependable source of intelligence analysis for the areas of my responsibility.
- Provided support to victims of the Beirut Port explosion in Lebanon.

Projects

EMG Controlled Drone using Simulation (Bio-Robotics Independent Project)

Autonomous Mapping for Drone in Simulation (Personal Project)

Experiment adding SMOTE to CNN Net Traffic Identifier (Machine Learning Project)

Fashion MNIST Classifier using Tensorflow CNN (Machine Learning Project)

OpenCV Motion Detector / Object Tracking (Personal Project)

Awards

Early College Career Academy: Early College High School IT Computer Networking Program - Maureen VanBuren Memorial Scholarship and Award 2017

Army Commendation Medal 2020

Activities

Participating in ICRA 2023 Autonomous Drone Racing Competition

RIT Robotics Club

RIT AI Club

RIT Division 1 League of Legends E-Sports Athlete

Education

Rochester Institute of Technology (NY) Computer Science 2017 to Current

SUNY ADIRONDACK - Early College Career Academy program (NY) 2016 to 2017
Networking / Cyber-Security

Cochise College (AZ) - Intelligence Operations Studies 2019

U.S. Gov. Top Secret Clearance with SCI

Skills

PROGRAMMING

Python

C++

ROS

OpenCV

TensorFlow

PyTorch

SKLearn

Pandas

NumPy

Machine Learning

SQL

Lisp

Java

C

PRESENTATION

Public Speaking

Business Presentation

Military Briefing

Mandarin Chinese

COURSES

Independent Study (Drone SLAM in simulation)

Biorobotics and Cybernetics

Machine Learning

Artificial Intelligence

Computer Science Theory

Graph Theory

Analysis of Algorithms

Discrete Mathematics

Probability and Statistics

Linear Algebra

Database Management

Multi-variable Calculus

Information Retrieval

Concepts of Computer Systems

Software Engineering

Programming Language Concepts

Mechanics of C Programming

Network Security

Project Based Calculus