HEMANTH S. KORALLA

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OBJECTIVE

Software and computer engineer with a passion for space systems, healthcare robotics, autonomous vehicles, and advanced computing topics. Seeking a position to further increase my software experience while developing a product to revolutionize this technology space and make tomorrow better than yesterday.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering

Atlanta, Georgia

May 2018

- **Bachelor of Science in Computer Engineering**
- Minor in Engineering & Business through the Denning Technology & Management Program Concentration: Systems and Controls, Robotics

Atlanta, Georgia August 2019 - Present

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computer Science

Master of Science in Computer Science Concentration: Computational Perception and Robotics

SKILLS

Programming: C++, C, Python, MATLAB (proficient)

Linux, Git, Robot Operating System (ROS), Jupyter Notebook, Atlassian Tool Suite Frameworks:

EXPERIENCE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) / JACOBS Design Strategy Software Developer

Houston, Texas

March 2022 - Present

- Developing prototype software for the Vehicle System Manager (VSM) of the Gateway space station
- Strategize effective algorithms and requirements for planning component of the VSM
- Responsible for building and implementing a CICD flow with reliable integration tests

GENERAL MOTORS

Warren, Michigan

Ultra Cruise Map Embedded Software Engineer for Autonomous Vehicles

October 2021 - Present

- Designing a tool to help visualize map data in a more lean and efficient manner with Apache Parquet
- Responsible for the integration of the map submodule into the greater Ultra Cruise system

Ultra Cruise Adaptive AUTOSAR Software Developer for Autonomous Vehicles

August 2020 – October 2021

- Analyzed and wrote Adaptive AUTOSAR specifications for the State Manager Function Cluster
- Created software for the State Manager to manage the states of various Function Groups

Ultra Cruise Map Data Tools Software Engineer for Autonomous Vehicles

August 2019 - July 2020

- Developed software to solve the high-definition mapping problem for autonomous vehicles
- Established a strong CICD cycle to ensure all software undergoes rigorous unit and system testing
- Led the design of software modules to detect and classify certain mapping features

Ultra Cruise Systems Integration Engineer for Autonomous Vehicles

August 2018 – August 2019

- Developed integration test cases for mapping and localization software teams
- Collaborated with system and software engineers to determine program requirements
- Automated parsing tools which analyze vehicle data recordings to validate software

LEADERSHIP

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) / JACOBS ASIA ERG Recording Secretary

Houston, Texas

January 2023 – Present

- Designing networking, social, and volunteering opportunities for ERG members
- Responsible for detailed meeting notes, ideation, and event management

GENERAL MOTORS

Warren, Michigan

TRACK Advisory Board Website Lead

January 2020 –July 2020

- Managed a team of 8 software developers to create a manager/employee matching process
- Created an Angular/Node application on top of SharePoint to present a list of jobs for employees