ARYAN NAVEEN

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EDUCATION

HARVARD UNIVERSITY, CAMBRIDGE, MA
FRESHMAN: BACHELORS IN COMPUTER SCIENCE & MATHS
Subjects: Vector Calculus, System Programming & Machine Organization, Intro to Probability

GREENVILLE TECHNICAL COLLEGE, GREENVILLE, SC
2019-2021: ASSOCIATE OF SCIENCE GPA: 4.0/4.0
Subjects: C, Operating Sys, C#, Robotics & Auto Control, Linux, Programming Logic, AC/DC Circuits

JL MANN HIGH SCHOOL, GREENVILLE, SC
2017 – 2021: GPA: 4.0/4.0

RESEARCH PUBLICATIONS:

- Research paper "Correlation Agnostic Fusion for Enabling Drone Flights in Challenging Environments" currently being finalized for publication in TAES Journal
- Lead Author for research paper "Decentralized Data Fusion with Probabilistically Consistent Ellipsoidal Intersection" published & presented at American Control Conference – May 2021
- Co-Author for "Dynamic Modeling & Prediction of Rollover Stability for all Terrain Vehicle" published at Autonomy, Artificial Intelligence and Robotics Technical Session (AAIR) – Nov 2020
- Lead Author for "3D mapping and stability prediction for autonomous wheelchair" published & presented at 10th IEEE Intl Conference on CYBER Technology in Automation, Control, & Intelligent Syst – Oct 2020
- Lead Author for "Predicting Wheelchair Stability while Crossing a Curb using RGB-Depth Vision" published & presented at 17th International Conference on Computers Helping People with Special Needs – Sep 2020

INTERNSHIP/EMPLOYMENT:

09/21-Date: Microrobotics Lab with Prof Robert Wood @ Harvard University as Research Intern
- Investigating integration of on-board sensors for autonomous flying micro robots (robo-bee) to provide real time accurate state estimations

03/20 - 08/21: Air Force Research Lab – Dayton as Wright Scholar Research Intern
- Proposed a correlation agnostic algorithm that improved upon Ellipsoidal Intersection by introducing a probabilistic constraint on outputs to improve performance

03/19 – 05/21: CodeNinja – Greenville as Instructor
- Taught programming syntax & code like Java, Scratch, Robotics to children under 14 years old

05/19 – 04/21: Center for Auto Research @ Clemson University – Greenville as Research Intern
- Researched on "3D mapping and stability prediction for autonomous wheelchairs"

06/20 - 08/20: NASA – Aviation Systems Department Ames Research Center as Research Intern
- Proposed potential Machine Learning techniques for solving COVID-19 challenges

07/19 – 08/19: Interoperability Lab @ Univ of New Hampshire as Research Intern
- Created a firewall controller using Python to manage access to IOL network & trained on internet security

COMPUTER SKILLS:

- Gazebo, ROS, Anaconda, Python, Matlab, Java, C, Linux, Solidworks, Scratch, Autodesk CAD, MS Office

EXTRACURRICULARS:

- FIRST Robotics (over 4000 hours) with emphasis on Programming/Computer Vision etc

AWARDS:

- Top 300 scholar for Regeneron Science Talent Search 2021
- Dean's list finalist for First Robotics from SE Regionals