

Sravan Balaji

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EDUCATION

- **University of Michigan**

M.S. in Robotics; GPA: 4.000

Ann Arbor, MI

Jan. 2021 – Dec. 2021

- Mobile Robotics, Design of Digital Control Systems, Robot Operating Systems

B.S.E. in Mechanical Engineering and Computer Science; GPA: 3.757

Sep. 2016 – Dec. 2020

- Autonomous Robotics Lab, Computer Vision, Machine Learning, Automatic Control

WORK EXPERIENCE

- **Rivian**

ADAS Controls Intern

Remote

Jun. 2020 – Aug. 2020

- Supported creation of Model-in-Loop framework for production controls software components; tested 50 requirements, identified and resolved 7 issues
- Integrated speed limit algorithm into production controls software for use with Simulink Coder C/C++ code generation; considerations made for embedded system processing limits and time delays
- Modified MATLAB data processing scripts to work with new test logs; compared performance against requirements and simulation to determine controls parameters to tune

- **Hughes Network Systems**

Software Development Intern

San Diego, CA

May 2019 – Aug. 2019

- Created Windows GUI app in C# employing .NET framework; automated mobile terminal configuration process to reduce user involvement, prevent errors, and decrease configuration time
- Implemented location based services on terminal software written in C; leveraged MQTT-SN protocol to provide low-cost method of sending GPS data to server

- **Rivian**

Business Technology Intern

Plymouth, MI

May 2018 – Dec. 2018

- Championed effort to remove BOM data inconsistencies; developed Excel macro to summarize mass and cost data, alert PMs of incorrect data; resulted in faster detection and resolution of issues
- Introduced and designed an internal website to collect and display data from business systems utilizing Python and Django; worked with REST APIs to present reports of issues by severity
- Led effort to migrate IT team to a new service desk; worked with Jira Service Desk to automate triage and assignment of IT tickets; increased ticket resolution rate within SLA targets from 70% to 95%

Vehicle Integration Intern

Jun. 2017 – Aug. 2017

- Developed a program in Java to summarize results of simulation; allowed users to modify inputs to see projected results of simulation to avoid additional testing and reduce costs

RESEARCH

- **Compliant Systems Design Lab**

Research Assistant

Ann Arbor, MI

Jan. 2019 – Apr. 2019

- Formulated and conducted an experiment to investigate applicability of digital image correlation (DIC) for analyzing strain in fiber reinforced elastomeric enclosures (FREEs)
- Analyzed creep behavior of FREEs and generated plots with C++ program

SKILLS

- **Programming:** C/C++, ROS, Python, JavaScript, C#, Java, Arduino, Excel VBA, L^AT_EX
- **Computer Aided Design:** SolidWorks, CATIA
- **Simulation:** MATLAB, Simulink
- **Languages:** English (first language), French (conversational), Tamil (conversational)