VEERA RAGAV CHIKKANACHETTIYAR VEERAMANI

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Available May – December 2020

EDUCATION

Northeastern University, Boston, MA *Expected 2021*
Candidate for Master of Science in Electrical and Computer Engineering GPA: 3.26/4
Concentration in Computer Vision, Machine Learning and Algorithms
Coursework: Mobile Robotics, Applied Probability & Stochastic Processes, Robotics Sensing & Navigation, Introduction to Machine Learning and Pattern Recognition

PSG College of Technology, Anna University, Tamil Nadu, India *May 2018*
Bachelor of Engineering, Robotics and Automation Engineering GPA: 8.07/10
Coursework: Vision Systems and Image Processing, Field and Service Robotics

TECHNICAL SKILLS

Programming Languages:	C, C++, Python, Java.
Software:	Blender, SolidWorks, Festo FluidSim, LabView.
Packages & Libraries:	Robot Operating System (ROS), Bullet Physics Library, OGRE Graphics Library, CMake.
Hardware:	Arduino, RaspberryPi, PLC & SCADA.
Operating systems:	Ubuntu (Linux), Windows.
IDE:	Eclipse, Atom, Qt Creator, Arduino IDE.
Team Collaboration:	Git.

INTERNSHIP EXPERIENCE

Katomaran Technology and Business Solution, Coimbatore, India *January 2019 to May 2019*
ROS Developer Intern

- Created ROS package for a skid-steer drive mobile robot.
- Implemented custom path planners for security patrol application as ROS navigation stack plugins.
- Developed auto-docking software for the skid-steer drive mobile robot.

Alog Tech Pvt. Ltd., Hyderabad, India *June 2018 to September 2018*
Robotics Engineer Intern

- Implemented SLAM, AMCL and Path Planning in autonomous cart prototype.
- Decreased failure of localization and path planning by implementing algorithms which provide redundancy.
- **Algorithms:** Dynamic Window Approach, AMCL, SLAM, Visual-SLAM, A* Search, Dijkstra Search

Cylab, Carnegie Mellon University, Pittsburgh, PA *January 2018 to May 2018*
Student Intern

- Worked on development virtual sensors in a project on development of simulator for self-driving vehicles.
- Developed an architecture to add different types of vehicles, pedestrians and traffic lights to the simulation.
- Developed an interactive tool to read, write and edit XML files which are used as configuration files, to create scenarios in the simulation world.
- **Algorithms:** Breadth-First Search, A* Search, State Machine

PROJECTS

Title: Lounge Space Spotter Using Turtlebot 2 *Sep 2019 – Dec 2019*
Course: EECE5550 - Mobile Robotics

- Developed a ROS package to make Turtlebot to patrol the lounge area to count the vacant spots that are updated in the map.
- **Algorithms:** AMCL, SLAM, Dijkstra Search, Dynamic Window Approach.

OPEN-SOURCE CONTRIBUTIONS

- Developed a ROS package for Rhino DC Servo Motor. [LINK]
- Fixed some critical bugs in ROS Navigation Stack. [LINK]