

Akash Mehta

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D.O.B – 17th September 1993

Objective: - Gain experience in industrial level Technical and Management skills that are directly related to Computer Engineering in the fields of Automation/ Software Development/ Algorithms and Data structures.

EDUCATION

Boston University, Department of Electrical and Computer Engineering Master of Science in Computer Engineering	GPA – 3.74/4	Jan 2018
Manipal University, Manipal Institute of Technology Bachelor of Technology, Mechatronics Engineering	GPA – 7.4/10	May 2015

TECHNICAL SKILLS:

Programming Languages: C, C++, Python	Framework: ROS
Hardware Description Languages: Verilog	Operating Systems: Linux, Windows
Circuit Design and Simulation Software: KiCAD, Proteus	CAD Software: SolidEdge, ProE, AutoCAD
Areas of Experience: Path-Planning and Automation, Software Development, Embedded applications, Machine Learning.	

RELEVANT EXPERIENCE:

- **Path Planning for Self-Driving vehicles/robots (Position – Research Assistant for Boston University) Feb2017 - Present**
Part of a team working on research and development various applications pertaining to self-driven vehicles/robots. Responsible for Path-Planning algorithms. Worked with RRT, A* and Greedy, along with their variants. https://github.com/BU-STRIDE-Lab/Racecar/tree/master/navigation/Path_planning
- **Genetic Algorithm for Simulating Fail Scenarios for planning algorithms (Position – Research Assistant for Boston University) Feb2017 – Present**
Part of a team working on research and development various applications pertaining to self-driven vehicles/robots. Worked on creating an algorithm, using Genetic Mutation, for an adversarial system, that generates paths designed to cause a planning algorithm to fail.
- **Inter-Communication for Path prediction of automated vehicles (Curricular Requirement ME740): Feb2017 - May2017**
Individual Masters project for generating a model for communication protocols in a completely automated traffic grid. This project mainly focused on Communication protocols and Path Planning Algorithms. – <https://github.com/Akuman22/FullyAutomatedGridControl>

ADDITIONAL EXPERIENCE

- **MPU-9250 Firmware :**
Worked on coding firmware for the IMU, MPU - 9250. Created functions for Master-Slave I2C control of the Magnetometer, and the DMP, ICM – 20648.
- **High Response Image-Tracking system:** Developing a highly-responsive and real-time embedded application for object tracking with a Python coded predictive Control Algorithms using Gumstix Verdex and a ROS framework.
- **Machine learning algorithm to analyze lung cancer through CAT scans:** Using various Neural Network concepts to develop a classifier for recognizing Cancer tissue in lung CT scans. (Rank 350/1972) - <https://www.kaggle.com/c/data-science-bowl-2017>
- **Wireless Automated Electronic Queuing System:** Developed an automated polling system for multi-node to single node master slave queuing system.
- **Gesture Controlled Robotics:** Made a gesture controlled car using IMU - MPU-6050 with wireless control using XBEE.

(Jan 2016 – May 2016)

- (Jan 2015 – May 2015)

- (June 2014 – Aug 2014)**

- (Nov 2016 – May 2017)

- (Sept 2013 – Sept 2014)