

Post Graduate Program in Motion Planning and Trajectory Generation (ADAS)

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-----Start-----

Hi, thanks for showing interest in our Post Graduate Program in Motion Planning and Trajectory Generation (ADAS) Program. It was great talking to you. Here are the details regarding the course.

Duration of the course

Full Time : 8 Months

Part Time : 16 Months

In this program, you will learn the below course

1. Core and Advanced Python Programming
2. Data structures & Algorithms using Python
3. Autonomous Vehicle Controls using MATLAB and Simulink
4. Path Planning & trajectory Optimisation using C++ and ROS
5. Introduction to ROS/Github/Linux
6. Numerical Optimization

Projects

1. English Dictionary App
2. Library Book Management System
3. Extensive Assignments on through usage of DSA Concepts
4. Adaptive Cruise Control Model
5. Lane Centering Assist
6. Wall following robot using ROS and Gazebo
7. Implementing simulation on a model using CARLA Software
8. Constraint Optimization Problem
9. Unconstrained Optimization Problem
10. Graph Based Trajectory
11. Motion Planner
12. Tele-Operating NASA Rover
13. Use CARLA simulator for implementing simulation on a given model
14. Design and Develop Adaptive Cruise Control Model in Simulink
15. Develop an Integrated Automated Driving Model
16. Design Implementation and Comparison of the Graph based Trajectory Planners
17. Trajectory Planning with Optimization Approach for Autonomous Car in Urban Area

Softwares

1. C++
2. ROS
3. Eclipse ADORe
4. Python
5. Anaconda
6. SQLite
7. MATLAB

8. Simulink
9. GitHub
10. CARLA
11. OpenCV

Demo videos

1. <https://youtu.be/wLsVDDn957c>
2. <https://youtu.be/0uBO8imUAuc>
3. https://youtu.be/TX_QrQM8i1Q
4. <https://youtu.be/Pz4rdiWdWZY>

Description of course content

<https://skill-lync.com/computer-science-engineering-courses/masters-certification-program-motion-planning-trajectory-generation>

Success stories

Check out the Placements of our customers at [Skill Lync Success Stories.pdf](#) and also hear what they say about our courses at <http://bit.ly/skill-lync-google-reviews>. Visit the Project Portfolios of students placed in reputed companies after taking Skill-Lync courses-

[Sarthak's skill-lync Profile : Skill-Lync](#)

[alagu's skill-lync Profile : Skill-Lync](#)

[Shubham's skill-lync Profile : Skill-Lync](#)

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For more information, visit www.skill-lync.com

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