



KARTHIK S

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CAREER OBJECTIVE:

To do cutting-edge research in the integrated field of **Robotics and image processing** and pursue higher education in the same field

EDUCATION:

National Institute of Technology - Tiruchirappalli	Srimathi Sundaravalli Memorial School, Chennai
INSTRUMENTATION AND CONTROL -Btech	Higher Secondary Education
Ist year(2017-18)- CGPA 9.23	10th(2014-15) CBSE CGPA - 10.00
2nd year(2018-19)-GPA 9.29	12th(2016-17) CBSE - 475/500

PROJECTS :

1. **TIESTO** - ITS (INTELLIGENT TRANSPORT SYSTEM) Sept. 2018 - Feb.2019
 - (a) An intelligent traffic system
 - (b) It is aimed at calculating traffic in a junction and reducing the traffic by designing a switching algorithm which takes into account vehicular density and time taken for the vehicles to pass
 - (c) V2I communication using wifi is the crux of the project.
 2. PROJECT **BEE-BOTS** (Ongoing) July. 2018 - Present
 - (a) This project is aimed at swarm robotics where the bots coordinate among themselves to assemble structures from the blockspace to workspace.
 3. Working on **e-Yantra** robotics competition conducted by **IIT-Bombay**
 - (a) Theme(ANT-bot) involving Image-processing,Path Planning,Design and fabrication **1st before finals and 4th in finals**
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INTERNSHIPS:

- 15 day intern at Petrofac (oil and gas) company in the field of instrumentation at Chennai
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TECHINICAL SKILLS:

- * Programming Languages : **C/C++**, **Python**, **Embedded C**, **Arduino**
- * Design Tools : **MATLAB** , **OCTAVE**
- * Frameworks : **Git**, **L^AT_EX**, **OpenCV**, **SQL** , **Unity (Gamedev)**
- * Micro-controllers : **Rasperry pi**, **Arduino-uno**,**Mega**,**Nano** and **MSP430**
- * Iot :MQTT protocol , Pi - Server and other iot basics