



## 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

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## EDUCATION:

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

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## 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<sup>A</sup>T<sub>E</sub>X**, **OpenCV**, **SQL** , **Unity (Gamedev)**
  - \* Micro-controllers : **Rasperry pi**, **Arduino-uno**,**Mega**,**Nano** and **MSP430**
  - \* Iot :MQTT protocol , Pi - Server and other iot basics
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## SOFT SKILLS:

1. Leadership - skills:
  - (a) **AAVEG** (1st year intra college nitt fest)-**AGATE HOSTEL COORDINATOR**
  - (b) **E-yantra** -**TEAM LEADER** - **ANTBOT**
  - (c) **SANGAM-TEAM LEADER** - **TUESTO**
2. A **team player** , **creative** , **adaptable** and **freely approachable**
3. Communication skills : Fluent in :-(**Tamil**,**Hindi**,**Telugu** and **English**)