



## 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 |
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| 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,  $\text{\LaTeX}$ , 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 - TIESTO**
  2. A team player , creative , adaptable and freely approachable
  3. Communication skills : Fluent in :-(Tamil,Hindi,Telugu and English)
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## EXTRA CURRICULAR:

- **IGNITTE:** Taught students of government school in Perambalur
  - **AAVEG:** Winning Hostel representative for the intra-hostel contest
  - **FESTEMBER MEDIA RELATIONS:** Converted a few media companies for Festember'18
  - **U AND I VOLUNTEER GROUP:** Teaching NGO for students of REC middle school inside campus
  - **SPORTSFETE:** - ACTIVE part of sports teams like volleyball and kho-kho , marathon and won medals in mixed -relay
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## CO CURRICULAR:

1. SPIDER (R&d Tech club of NITT)
    - (a) MICROCONTROLLER WORKSHOP FOR FRESHERS- WIRELESS GAME CONTROLLER USING INFRARED DATA TRANSMISSION SEP.2018 - OCT.2018
    - (b) Conducted a Event called **CRE8** For freshers to promote their technical skills in various domains
  2. Participated in ARDUINO PROGRAMMING CHALLENGE(APC) in (Shaastra'19 IIT-M)
  3. **Second place winners in sangam (TIESTO) ( intra nitt contest ) -cashprize Rs-25000/-**
  4. **SENSORS - WORKSHOP TEAM** : - (Department's Technical symposium) - conducted a workshop on General Robotics
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- **Personal details:** Father's name: Ramesh S                      Mother's name: Prathibha S                      Sex: Male  
Date of birth: 17/01/1999                      Nationality :INDIAN                      Marital Status: **SINGLE**
- **Declaration:** I hereby **declare** that the information furnished above is true to the best of my knowledge. I do hereby declare that above particulars of information and facts stated are true, correct and complete to the best of my knowledge and belief.
- **Reference** : DR.D.Ezhilarasi ( ezhilil@nitt.edu ) Tel : +91-431-2503350