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 **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**

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, LaTeX, OpenCV, SQL , Unity (Gamedev)**

* Micro-controllers : **Rasperry pi, Arduino-uno,Mega,Nano and MSP430**

* Iot :MQTT protocol , Pi - Server and other iot basics

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)**

EXTRA CURRICULAR:

* **IGNITTE:** Taught students of government school in Perambalur

* **AAVEG:** Winning Hostel represntative 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