

M. ARAVIND

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EDUCATION

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- TKM College of Engineering** • Kollam, Kerala May 2019
Bachelor of Technology • Electronics & Communication Engineering • CGPA: 8.73/10.0 (Hons.)
- Kendriya Vidyalaya Pattom** • Trivandrum, Kerala May 2015
AISSCE (XII) • Physics, Chemistry, Maths • 93.8 %
- Kendriya Vidyalaya Pattom** • Trivandrum, Kerala May 2013
AISSE (X) • Science • CGPA: 10.0/10.0

WORK EXPERIENCE

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- Software Engineer** – Tismo Technology Solutions Pvt. Ltd. August 2019 – Present
Bengaluru, Karnataka
- Work exposure to IoT domain projects.
 - Experience working in C and java ME.
 - Experience working with UART, SPI, I2C, BACnet protocols.
- Research Intern** – National Institute of Technology Calicut May 2018 – June 2018
Calicut, Kerala
- Worked on implementing improved PCA methods for detecting moving objects from video sequences.
 - Worked under the guidance of Dr. Sudhish N George.
- Intern** – Airports Authority of India June 2017
Trivandrum Domestic Airport, Kerala
- Received training on basic aspects and functioning of area, approach and air traffic control during landing and take off of aeroplanes.
 - Prepared a detailed report for the same.

PROJECTS

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- An inexpensive unmanned aquatic vehicle for underwater human detection** Jan 2019 – May 2019
8th Semester Final Project
- Developed a low cost working model of an underwater vehicle which is capable of performing object detection under water while working autonomously.
 - Published a paper with the same title in American Institute of Physics Conference Proceedings 2222, 040015 (2020).
- Advanced Vertical-Farming Assistive Setup (AVAS)** Oct 2017 – Nov 2017
5th Semester Research Project
- The project discusses the idea of automation of Vertical Farming for better yield.
 - Fuzzy performance analysis, and comparison of growth attributes, of subject plants with the ideal set, and automation using arduino, humidity and temperature sensors and servo motors and studied the response.
- Autonomous Maze Solver** Oct 2016 – Nov 2016
3rd Semester Research Project
- Implemented a modified version of Pledge Algorithm to make a robot which solves the given maze.
 - Maze consisted of Styrofoam walls and robot relied on ultrasonic sensors to detect walls.

TECHNICAL SKILLS

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- Software: C, Java ME, Python, Web(HTML, CSS & JS).
 - Hardware: STM32, NXP, AVR and NRF development boards.
 - Miscellaneous: git, Node-RED, L^AT_EX.

EXTRA CURRICULAR ACTIVITIES

- Co-Founder and mentor for IoT - Special Interests Group, a college club which conducts workshops and training for freshmen and sophomore students in latest tech in demand.
- Co-Founder - Space it Lab, a college initiative of opening a technical laboratory for developing student initiated projects; aimed at preparing and elevating students to the industrial requirements.
- School Council member for consecutive years. Headed the responsibility of School Captain during the senior year.
- Quiz enthusiastic: 1st in Inter-KV All Kerala Quiz Competition (2014), and other similar events.
- Trained (7 yrs) Mridangam player (Carnatic Music) and have played in school, college and office events.
- Loves Bike Ride, Photography, Acting and Theatre, Art and Music, and Star-gazing.

AWARDS & RECOGNITION

- Secured O[S] grade (Scored above 90%) in all mathematical subjects in the undergraduate curriculum.
- Secured Hons. from APJ Abdul Kalam Technological University for completing additional 2 M.Tech courses (Advanced DSP and Advanced Optical Communication Theory) within B.Tech course time span.
- Google Science Fair Regional Finalist, Asia Pacific: 2 times consecutive during 2012 and 2013, for presenting one among the top 30 projects in the age category 14-16.