

PRAGADEESH SURESH BABU

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ACADEMIC QUALIFICATION

Bachelor of Technology in Instrumentation and Control Engineering from National Institute of Technology in 2017 CGPA: 7.81

INTERNSHIP

- **Interned at Indian Institute of Science, Bengaluru**
Duration: May – July 2016
Learning: To identify the system parameters and transfer function of an unmanned helicopter using radial basis and particle swarm optimization method as part of a government-funded project.
- **Title: Research Intern at Indian Institute of Technology, Madras**
Duration: December 2015
Learning: To build a device to measure the ratio of reflectivity of different devices to improve the lighting conditions in a building.

ACADEMIC PROJECTS

- **Title: Car Safety System Presented at Sangam, Pragyan (ISO 9001 and 20121 Certified Organization)**
Location: National Institute of Technology, Tiruchirappalli
Duration: November, 2015 – February, 2016
Team Size: 4
Objective: To develop a car safety system for combating drowsiness in drivers
Individual role: Worked on the ultrasonic sensor module for measuring distance which interfaced with buzzer to alert driver to prevent drowsiness.
- **Title: Medassist**
Location: National Institute of Technology, Tiruchirappalli
Duration: August 2016
Team Size: 4
Objective: To develop a prototype of a product to help old aged people to take the correct medicines at the right time.
Individual role: Worked on the system and user interface.
- **Title: Home Security System (Individual)**
Location: National Institute of Technology, Tiruchirappalli
Duration: January – February 2014
Objective: To monitor the room using motion sensors to prevent theft of valuables.
Individual role: Worked on camera module, motion detector module and buzzer interface and coding for programming the microprocessor.

SIMULATION PROJECTS

- **Title: Simulation of Three Phase Full Wave Converter with Drives**
Location: National Institute of Technology, Tiruchirappalli
Duration: January – February 2014
Team Size: 2
Objective: To verify that AC current has been converted to DC current using TINA software
Individual role: Worked on MATLAB simulation using the different modules to get the results.

- **Title: Simulation of Thermistor Linearization using Temperature to Period Circuit**
Location: National Institute of Technology, Tiruchirappalli
Duration: March- April 2015
Team Size: 3
Objective: To understand the behavior of thermistor and methods of linearization
Individual role: Worked on the different types of Op-amps that could be used in the simulation and understand their characteristics and effect on the result obtained

PAPER PUBLICATIONS

- S.Pragadeesh, Pragyaditya Das ‘A Microcontroller-based Car Safety System: Implementing Drowsiness Detection and Vehicle-Vehicle Distance Detection in Parallel’, *International Journal of Science and Technology Research*’ Dec 2015 Volume 4, Issue 12,161-163.
- S.Pragadeesh ‘Reflectivity Measurement of Materials’, *International Journal of Software and Hardware Research in Engineering*’ Jan 2016 , Vol.4, Issue 1, 42-46
- S.Pragadeesh, Sabareish Pandian ‘System Identification of Unmanned Helicopter’, *International Journal of Advanced Research*’ Aug 2016, Volume 4, 516-523.

AWARDS AND ACHIEVEMENTS

- Awarded a cash prize for securing the position in the top 0.1% at the Velammal State Level Science Talent Search Examination 2010
- Ranked 786 out of 5,000 students in the state of Tamil Nadu in the JEE mains exam in the General Category

WORKSHOP AND INDUSTRIAL TRAININGS

- Participated in an industrial training course at Severn Glocon, Chennai and learned about control valves, manufacturing process and applications in industry in July, 2015
- Partook in the I-interact business simulation workshop conducted during E-Summit 2014 held at NIT Tiruchirappalli in January, 2014

TECHNICAL SKILLS

- Languages: C,C++
- Operating System: Windows XP
- Packages: MS Office, TINA, MATLAB, LABVIEW

EXTRACURRICULAR ACTIVITIES

- Secured the first prize in NITTFEST (Annual Cultural Festival) as Drummer and Percussionist in NITTFEST 2016.
- Member of E-Cell (Entrepreneurship Cell) Marketing Team, Tiruchirappalli, September 2015 – May 2016.
- Participated in NSS team of NIT Tiruchirappalli which taught English and organized games for school children from nearby localities in November, 2014.
- Volunteer in planting saplings in National Institute of Technology, Tiruchirappalli, September, 2014.