Uday Girish Maradana

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Education

National Insitute of Technology, Calicut *Kerala, India*

B.Tech(Mechanical Engineering) *July 2015- May 2019(Expected)*

- CGPA: 6.38/10.0
- Elective Courses: Control Systems Engineering,Introduction to Robotics, Artificial Neural Networks and Genetic Algorithms, Image Processing

Narayana Junior College *Andhra Pradesh, India*

Intermediate Education *June 2012- April 2014*

- Percentage: 97.2 %

St.Anthony's School *Andhra Pradesh, India*

SSC *June 2011-May 2012*

- CGPA: 9.5/10.0

Skills

Languages	C,C++,Python,HTML,R
Design and Analysis	SolidWorks,Ansys, FluidSim, Master-Cam,CREO,COMSOL,MATLAB,Proteus
Cloudbased	MySQL,GCP,AWS,Azure
Open Source	Octave,R,Arduino,GPS,GSM,IMU,Raspberry Pi,OpenCV,ROS
Technologies	ML,NLP,AI,Computer Vision,IOT,Speech Tech,Control Systems,GA,Network Security,Pneumatics
Research Skills	AI, Robotics,Advanced Drone Systems, Human-Computer Interaction,Quantum Physics
Other Skills	Leadership, Research, Public Speaking, Strategic Planning, Project Management,MS Office

Certifications/Courses Completed

Coursera

(Visit my LinkedIn Profile to view certificates)

- Machine Learning by Stanford University on Coursera
- Neural Networks and Deep Learning by deeplearning.ai on Coursera
- Sequence Models by deeplearning.ai on Coursera

Experience

Storilabs System Technologies *Calicut, India*

INTERN *June 2018 - Sep 2018*

- A project related to Online Surveillance using Artificial Intelligence and cloud based technologies.

Projects

Cloud based video surveillance system (June 2018-Present) Development of an Object Detection and live video surveillance system using Google Cloud Machine Learning Platform.

Knee Rehabilitation System (July 2018 – Present) We are trying to design and fabricate a device with 2 DOF mechanism which can be used for performing Flexo-extension exercises which will be used for Knee rehabilitation purposes.

RIGGU V2-The Semi Humanoid (May 2018 – Present) Complete framework for the development of an Interactive Semi-Humanoid Robot using technologieslike AI,NLP,ROS,SLAM.

Quadcopter (May 2016 – Present)

Version 1: Quadcopter based on Arduino Mega 2560 and IMU, with PID control Algorithm.

Version 2: Quadcopter based on APM 2.8(Flight controller)with GPS Module which is capable of performing Autonomous operations.

Version 3: Working on Coordination among two quadcopter to acheive a basic level of swarm.

Hexacopter (Feb 2018 – May 2018) A hexacopter was made based on ARM and controlled manually. PID tuning was done for the stability. This project involves the testing and performance analysis of hexacopter on PID and backstep algorithms.

GUI For Library Automation (Mar 2018) This project involved working on python and tkinter to develop a basic graphical interface for automation systems.This was tested with a library automation system.

Four wheel steering system (Jan 2018 – April 2018) We are a team of three members worked on this project involved submission of a fabricated model as a part of our course programme.In this project we used a mechanism to orient the four wheels in such a way which enables the automobile to take a sharp turn with minimum radius of curvature.

RIGGU (Jan 2017 – Dec 2017) It is a robot which has capabilities like Image Processing, Speech Recognition. It is an Interactive Robot which is made on Raspberry Pi platform based on Python, OpenCV, PSphinx and e-speak.

Robocon Bot (Sep 2016 – March 2017) A manual bot which can throw disks at specified positions which was made by our Robotics Interest Group for National level Robotics Competition called Robocon- 2017.

GSM-GPS Guided Bot (Jan 2016 – Apr 2016) A four wheel mobile robot which can move from one specified location to another with the help of GPS and GSM modules.

Extracurricular Activities

Robotics Interest Group - NIT Calicut

Member

- Participated in National Level Robotics Competition with team of 20 Members.
  Event: ROBO- CON 2017 Place: Pune, Maharashtra Date: 2nd to 4th March 2017 Role Played: Mechanical design and fabrication of manually controlled Robot.
- Volunteered 2 day workshop on Basic Introduction to Robotics to college first years.
  Role Played: Explained the software and gave introduction to Pneumatics,various field of robotics and explained how to code a Line following robot and Obstacle Detection Robot.

Community Outreach

2018	**Participant**, NiTCkathon.Ai which is an AI based hackathon conducted by JMR Infotech.	*NIT Calicut*
2017	**Participant**, India design Contest(conducted by DST, Texas Instruments,Startup India)	*Online Competition*
2018	**Attendee**, Short-term programme on Research Methodology in Science, Energy and Management	*NIT Calicut*
2018	**Attendee**, Full day session on Startup and IPR Awareness Program	*NIT Calicut*
2015	**Attendee**, Seminar on Innovations in Space Technology	*NIT Calicut*

Languages and Hobbies

Languages

Telugu,English,Hindi

Hobbies

Reading Books,Listening Music.

References

Dr. M D Narayanan *NIT Calicut*

Associate Professor(Mechanical Engg.)

- E-mail : mdn@nitc.ac.in

Dr. A P Sudheer *NIT Calicut*

Assistant Professor(Mechanical Engg.)

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