

Amitash

Nanda



16 March 1998



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Education

B.Tech Instrumentation and Electronics Engineering CET, BBSR | 2019 | GPA: 8.61/10

Class XII

DEMS Rourkela | 2015 | 90.8 %

Class X

DEMS, Rourkela | 2013 | 10 CGPA

Skills

PLM: CATIA/DELMIA(V5 2017x, 2019x), REST Web Services

Languages: C, C++, Python, Matlab, Basics of SQL, Java and VHDL

Hardware: Arduino, AVR, Jetson TK1, Raspberry Pi

Simulation : Proteus, Blender 2.7, Multisim,

Work Tools : LaTeX, Github, Gitlab
Domain: IoT, Embedded Development, Machine Learning, Mobile Robotics

Positions

Convenor & Head at ZAIRZA, Technical Society of CET, BBSR

- Improved Industrial collaboration

Lead Volunteer at Google Developer Group, UTF, Hackster.io, Bhubaneswar Chapter

- Organized workshops and Study Jam

Workshop

VHDL, Embedded System at IIT-BBSR

-By COREEL Technology

Digifest 3.0 Hackathon

-Rajasthan, India

Moocs

Introduction to IoT - NPTEL(IIT Kgp)

IoT- California University

Python- Udemy

Embedded System- UT Austin

Robotics- Nanodegree, Udacity

Intro to Machine Learning using

TensorFlow- Udacity

Work Experience and Internships

Since Jun'19 Associate Software Engineer Accenture Digital, Bangalore
PLM-Enovia/3D Experience: MD&I Innovation Project, 3DX-GO.

- Worked on customization and integration of RESTful web services and Hybrid App development.
- Designed an Apache Cordova based android application for 3D Experience functionalities.
- Certified Prime Automation in Python and AI.

May'17-18 Research Intern Escorts Limited
Completed the project "*Computer Vision based autonomous Intra-Row weeding machine demo*" automating crop yield process.

April'18 Project Intern IOCL, Paradip
Enhanced the process of monitoring the pontoons of the floating roof tank using mobile robot.

Research and Projects

Jan-Mar'19 Plant Sustainability Enhancement using Unmanned Aerial Vehicle
Developed a drone based plant health monitoring system for remotely monitoring the plant health and receiving the on-site data. A trained ResNet model is used for plant health classification.

May'17-18 Intra-Row Weed Removal Tabletop Machine
Implemented a computer vision assisted model to classify weed and cabbages using haar cascade classifier.

Nov-Dec'18 Automated Trash Collection Robot Prototype
Real-time plastic trash detection using SSD Mobile Net 1.0, navigation and monitoring.

July-Dec'17 Smart Agricultural Transporting System
Configured the robot *Fire Bird V* with computer simulation and wireless communication to follow the mapped model of the farm.

Aug-Nov'16 Automated Railway Track Switching Using RF communication
Automation of the track switching system using encrypted RF and GPS communication to increase the efficiency of current SSI system.

Publication

May'19 Nanda, A, et al., "Computer Vision Assisted Autonomous Intra-Row Weeder". *International Conference on Information and Technology(ICIT)*, IEEE, 2018, pp.79-84.

Mar'20 Nanda, A. "sTransporter: An Autonomous Robotics System for Collection Fresh Fruit Crates for the betterment of the Post Harvest Handling Process" *6th International Conference on Advanced Computing and Communication Systems (ICACCS)*, IEEE, 2020, pp. 577-582, doi: 10.1109/ICACCS48705.2020.9074439.

Achievements

Mar'20 ICACCS, IEEE 2020, Coimbatore
Best Paper

Aug'18-19 Robotics Camp, Infosys| Bosch Hackathon
Winner|Second Phase

Nov'18 Accenture Innovation Challenge
Finalist

July'17-18 Texas Innovation Challenge, IICDC | E-Yantra Robotics Competition, IIT Bombay
Semi Finalist