

GUNJAN GIRI

Software Developer

Robotics Enthusiast

EXECUTIVE PROFILE

I am an Engineering Undergrad with a penchant of New Skills and a Technology Enthusiast eager to work in the field of Software development for Social good and Interested in Machine Learning, Self driving Cars, Robot Vision and Robotics.

SKILLS & ABILITIES

PROGRAMMING LANGUAGES :-

C++, Python, HTML, CSS, Dart, MATLAB, Assembly Level Languages, Javascript

SOFTWARE & DEVELOPMENT TOOLS :-

ROS, ROS2, Gazebo, Arduino_IDE, MoveIT Setup Assistant, Flex-Be, ArduPilot, open3d, openCV, Point Cloud Library, Keras, Pytorch, Multisim, Keil, Vivado, Android Studio, Flutter, Anaconda, TensorFlow, Embedded Systems, Carla, Xilinx SDK, Linux, Perception, Hardware/Software Debugging, Robotics Process Automation, DBMS, OOPs, Computer Networks, SAP ABAP, GitHub

HARDWARE :-

Arduino, NodeMCU(ESP8266), PixHawk, Raspberry Pi, Raspberry Pi Pico, Microprocessor(8085, 8086, 80286), Microcontrollers(8051).

CONTACT

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LinkedIn : <https://bit.ly/3gufpWC>

Twitter: <https://twitter.com/GiriGujju>

GitHub: <https://github.com/GunjanGiri>

Dev : <https://dev.to/gunjangiri>

Hacker Rank : <https://bit.ly/3pUdgaV>

Codechef : <https://bit.ly/3cH6MXH>

InterviewBit : <https://bit.ly/35n5D3u>

LeetCode : <https://bit.ly/3zpO4gV>

YouTube : <https://bit.ly/3wsgazp>

PortFolio : <https://www.igunjang.me>

ACHIEVEMENTS

- 5* coder at HackerRank for c++ and Python.
- 2* coder at CodeChef
- Selected in Top 30 Teams in Hacker earth Hackathon - Smart app to control Crowd at Mall organized by Reva University.
- Selected in Top 32 Teams in a Hacker earth Hackathon - Data Scientist at Hospital organized by GE Healthcare.
- Hack-fest 2.0 - Winner of Hack Fest 2.0 organized by our College for the Selection of SIH 2020.
- SUSE Scholarship Challenge recipient 2021 by Udacity
- Been in Stage 2 of Eyantra by IIT Bombay

EDUCATIONAL HISTORY

B.Tech in Electronics and Instrumentation Engineering | 2018 - 2022

COLLEGE OF ENGINEERING AND TECHNOLOGY, BHUBANESWAR

With a CGPA of 8.80 till 5th Sem

Technical Coordinator of Zairza - The Technical Society of CETB.

Member of **E-Cell** - The Entrepreneurship Club of CETB.

DR A.N.K DAV PUBLIC SCHOOL, ROURKELA 2016 - 2018

Higher Secondary Education with 82.4% in PCMB

CHINMAYA VIDYALAYA(E.M) SCHOOL, ROURKELA | 2005 - 2016

Secondary Education with 90.2% in Science

Work Experience

INTERN - DEVELOPER-ROBOTICS PRODUCTS

K12 Techno Services Pvt Ltd | June 2021-August 2021

- Working on design of New Robots and it's Algorithms.
- Worked on Battery Optimisation and Creating Libraries.
- Worked on Debugging of Products and it's development.
- Worked on Algorithms and Library Creation.

ROBOTICS INTERN

TechnoYantra | September 2020 - December 2020

- Worked on Docking part of Robots
- Created a pipeline between docking and robots

AD-CLOUD ROSIFIER NINJA

Ottonomy IO | May 2020 - August 2020

- Worked on AWS Robomaker and it's tools
- Setup of ROS Turtlebot 9 and importing lidar and camera
- Setup of Rover Model and Droid Model in AWS.
- Did a data storage in AWS for Automated Annotation
- Made my object detection model Train

Certifications

Verify @LinkedIn

- DevNet Associate | Cisco Networking Academy | May 2021
- CCNAv7: Introduction to Networks | Cisco NetAcad | May 2021
- Cybersecurity Essentials | Cisco NetAcad | April 2021
- SAP Certified Development Associate - ABAP with SAP NetWeaver 7.50 | SAP Global Certification | April 2021
- Programming Essential in Python | Cisco NetAcad | March 2021
- DSA using Python | NPTEL | Dec 2020
- Robotics Specialization | Coursera| Sept 2020
- Self-Driving Cars Specialization | Coursera | Sept 2020
- Computer Vision - Object Detection with OpenCV and Python
- Deep Learning Specialization | Coursera | July 2020
- Flying Car and Autonomous Flight Engineer NanoDegree Program | Udacity | July 2020
- Self-Driving Car NanoDegree Program | Udacity | June 2020
- Robotics Software Engineer | Udacity | May 2020
- Algorithmic Toolbox | UCSan Diego | April 2020

Projects

Verify @YouTube @GitHub

- **Visual Follow Line exercise of Robotics Academy by JdeRobot Organization** - This was a Project done for the GSoC Program for the year 2021. I had implemented PID algorithm in it for the Robot to follow up line and Cover the Path.
- **Home Service Robot** - This project was created to move our bot autonomously between the environments and do the specified tasks with ease. Here the SLAM algorithm and path planning method are used.
- **Amazon Robotics Challenge(2016)** - Integrating a Complete Robotic System i.e Pick and Place of an object for a Factory Environment using State Machines.
- **ROS simulation of a Car with Hokuyo Sensor** - This Project shows the simulation prototype of How the Hokuyo Sensor with the help of Lidar detects the covered path and left out path in a Road.
- **ReRo** - This is an Ongoing Project which can be used in Disaster Management Scenario. Here SLAM Mapping and OpenCV concepts are used. It can help the Disaster Management Committee to fasten the rescue process.
- **Map my World** - This project was created to make a map of an Unknown Environment and give the Complete map of the Environment. Here Gmapping and RTAB Maps concepts are used.
- **Self Driving Car** - This project consists of several parts in which I have Implemented OpenCV first for detection of Advance lanes in the Highway, then used Deep Learning for behavioural Cloning of the Car, and then PID Controller for detection of Turning and Errors in the path by Car.
- **Sahayak Bot** - This was a Project given by IIT Bombay in which I implemented SLAM Algorithm and Robotic Arm Manipulation in a WareHouse Robot.
- **Piano Game** - This Project was done using Flutter with a Simple UI in it. It's basically a Tapping Plate game with Sound.