



# Ritik Agarwal

A final year Electrical and Electronics engineering undergraduate keen to start career in a professional landscaping company. Flexible with strong team-working skills as well as being able to work individually on projects. Currently involved in wide variety of task in areas such as project management, teaching (in free time), Student organization (Clubs) managements, Looking for new Technologies available and their applications in different fields.



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<https://github.com/Ritikagarwal2203>



<https://ritikagarwal2203.github.io/>

## Education

- **B.Tech** in Electrical and Electronics Engineering.  
**Veer Surendra Sai University of Technology, Burla.**  
08/2019 – 06/2023  
- CGPA: 9.15
- **Intermediate** (12<sup>th</sup>)  
**Deepika English Medium School, Rourkela.**  
05/2017 – 06/2019  
- CBSE  
- 89.4%
- **Matriculation** (10<sup>th</sup>)  
• **Deepika English Medium School, Rourkela.**  
05/2017  
- CBSE  
- 95%

## Certifications

- **MATLAB – Coursera**
- **Web Development – Coursera**
- **Python and OOPS – Progate**

## Organizations

- **Robotics Society : Where imagination meets Innovation**  
*Technical Team Member*

## Languages

- English
- Hindi
- Odia

## Interest

- Robotics
- Core Engineering practices
- Learning new Technologies
- YouTube

## Work/Volunteer Experience

### Project and Event Manager

**VSSUT Robotics Society, Burla** (09/2020 – 01/2023)

**Achievement / Task:**

- organized several workshops, webinar and competitions.
- Worked on various projects like 3d Printer, 3d Scanner, ROUV etc.
- Managed all the club Activities including the promotions, expanding the connections, collaborating with startups and many more.

### Teacher On Electronic Projects

**Robocamp, VSSUT, Burla.** (05/2021 – 06/2021)

**Achievement / Task:**

- Taught more than 40 students Arduino, C/C++, UAVs.
- Worked as a mentor to help the student in developing their school projects.

## Personal Projects

### 3D Printer

- Developed and working on upgrades of a 3D printer.
- Dual Extruder upgrade is successfully incorporated.
- Used the .STL files from SolidWorks or any other 3D object designing software and Then the file is converted to compatible GCODE file using Slicer.

### UAV

- Developed a fully Stable Quadcopter
- Equipped With the Telemetry, GPS modules and Pixhawk Flight Controller.

### Maze Solving Bot

- Developed A Maze Solving bot using Arduino, L298 Motor Driver, IR sensor array etc.
- The Bot starts at any point of line Maze and reaches to the End Point.
- After That It Returns To the Starting Point Following The Shortest Path.

### 3D Scanner

- Developed and working on 3D scanner.
- Initial Development was using the Kinect Scanner.
- Used Meshroom and 3DF Zephyr for Photogrammetry.
- Implementing Garmin Lidar V3hp and testing for point cloud generation and better result.

### Smart Cart

- Capable of Scanning product's QR code and preparing a sum total bill after fetching data from the inventory

### Various Python and Other Projects. [\(Click here\)](#)

## Skills

C	C++	Java (Basics)	Python	HTML	CSS	Arduino
Adobe Photoshop	React	JavaScript	Android Studio	MATLAB		
Adobe Premier Pro	OOPS	Eagle Cad	MS Office	Proteus	SQL	

## Achievements

- **Runner up at Maze Solving Competition at Wissenaire 2k19**  
(Tech Fest of IIT Bhubaneshwar)
- **Awarded 1<sup>st</sup> prize in Deep Tech Ideathon 2021**  
(Hackathon from Mouser Electronics and Applied Singularity)

## Soft Skills

- Leadership • Multitasking • Time Management • Problem Solving •