

**Roshan Agrawal**  
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## Summary

Driven and passionate Electrical Engineering Undergrad at Veer Surendra Sai University of Technology, eager to innovate and solve real-world problems. With hands-on experience in power systems, digital marketing, and robotics, I thrive in dynamic environments that challenge my technical and analytical skills. My journey has been a blend of engineering, creativity, and leadership, from interning at the Rourkela Steel Plant and Odisha Hydro Power Corporation to building an autonomous underwater vehicle. A fast learner with strong problem-solving abilities, I enjoy taking on new challenges, whether optimizing power plant efficiency or designing smart automation solutions. Outside of academics, I love exploring technology, engaging in deep conversations, and embracing spontaneous adventures.

## Education

### Veer Surendra Sai University of Technology

B.TECH IN ELECTRICAL ENGINEERING

July 2021 - June 2025

Sambalpur, Odisha

### Bharati Hindi Vidyalaya

HIGHER SECONDARY SCHOOL IN SCIENCE - 71 PERCENT

2019 - 2021

Siliguri, West Bengal

### Godwin Modern School

SECONDARY SCHOOL - 71 PERCENT

2017-2019

Darjeeling, West Bengal

## Experience

### Rourkela Steel Plant (SAIL)

May - June 2024 / Rourkela, Odisha

VOCATIONAL TRAINEE

- Trained at Captive Power Plant in Rourkela Steel Plant, gaining hands-on experience with basic Power Plant cycles, turbines, and their uses in electrical systems.
- Learned methods to increase the efficiency of Captive Power Plant and industry safety practices and precautions..

### Odisha Hydro Power Corporation

May - June 2023 / Sambalpur, Odisha

SUMMER INTERN

- Observed the Operation of Generating Units and Operation of 132 kV and 11 kV switching equipment.
- Familiarized with the maintenance of various pumps, 132/11 kV switching equipment, excitation, and AVR System of Generator.
- Understood the Electrical Systems and power distribution, operation and maintenance of equipment, and operational efficiency.

### Rizzle, Silver Labs India Pvt Ltd

Feb - March 2023 / Remote, India

DIGITAL MARKETING

- Executed digital marketing strategies to enhance the visibility of the Rizzle app and drive user acquisition for growth.
- Analyzed user data and feedback to identify trends and provided feedback to improve app features for a better user experience.

### Stockgro, Assetgro Fintech Pvt Ltd

Nov 2022 - Feb 2023 / Remote, India

CAMPUS AMBASSADOR

- Organized and hosted events such as Stock Market Simulation, quizzes, and meme making competitions to educate and engage users.
- Collaborated with the marketing team to create promotional materials and onboarded users on StockGro app to increase its presence and user engagement.

## Projects

### Remotely Operated Underwater Vehicle, ROUV | Ardusub, Pixhawk-2.4.8

January 2023

- An underwater vehicle that uses sonar mapping and captures images and videos of underwater areas for surveying.
- Implemented Image Processing to automate the detection of faults, as well as WayPoint Navigation, and Holonomic motion to hold its position against turbulent flow of under 20m/s.

- Built a Bot designed to reduce the workload of the Human waiters by delivering the ordered Items to the Customer.
- Implemented Omni Wheel System, which enabled the Bot to move in all directions and also made the turnings faster.

## Skills

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|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Programming Languages  | <b>Experienced:</b> Python   SQL   C++ <b>Familiar:</b> Javascript   HTML/CSS   Java |
| Softwares & Frameworks | MS Office   Matlab   Simulink   VS Code   Arduino IDE   Photoshop   Wordpress        |
| Technologies           | Arduino   Raspberry PI   PLC Controller   Github   Google Cloud Platform   Wordpress |
| Soft Skills            | Leadership   Multi-Tasking   Critical Thinking   Public Speaking   Graphic Designing |
|                        | Deadline Driven   Time Management   Creative Mindset   Team Work   Problem Solving   |
| Languages              | <b>Native:</b> Hindi <b>Fluent:</b> English                                          |

## Certification Courses

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- Getting Started with Artificial Intelligence by IBM SkillsBuild
- Google professional Workspace Administrator by Coursera
- Fundamentals of digital marketing by Google
- LinkedIn Marketing Solutions Fundamentals by LinkedIn
- Electric Arc Furnace by Steel University World Steel Association
- Secondary Steelmaking by Steel University World Steel Association
- Google Play Academy Store Listing Certificate