

# Akash Kumar Sahu

Mechanical Engineer

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## EDUCATION

<b>Veer Surendra Sai University of Technology, Burla, Odisha</b>	2021-Current
B.Tech in Mechanical Engineering	<b>CGPA/Percentage: 8.31</b>
<b>Aaryan Gurukul H S School, Berhampur, Odisha</b>	2018-2020
Higher Secondary Education (12 <sup>th</sup> Class)	<b>CGPA/Percentage: 89.00</b>
<b>Police High School, Chatrapur, Odisha</b>	2017-2018
Secondary Education (10 <sup>th</sup> Class)	<b>CGPA/Percentage: 80.50</b>

## PROJECTS

- Instant Beverage Cooler Using Thermoelectric Cooling** *Minor & Major Project*
  - Conceptualized an instant beverage cooler using a **Peltier module** for efficient and rapid cooling.
  - Focused on enhancing the efficiency & optimizing its performance for improved cooling in a compact and portable design.
- BAJA SAE 2025 | E-loKE 3.0** *Upcoming in 2025*
  - Developing a **4WD EV** vehicle for BAJA SAE 2025 from repurposed materials, marking our team's first venture into EV design.
  - Gaining extensive knowledge in vehicle transmission systems and automotive concepts through this project.
- ATVC 2024- (Aravalli Terrain Vehicle Championship) | E-loKE 2.0** *20<sup>th</sup>-24<sup>th</sup> March 2024*
  - Led a team of 25 engineers as **Technical and Transmission Head**, overseeing the design and integration of the transmission system for the E-loKE 2.0 all-terrain vehicle.
  - Effectively managed project timelines, achieving success in technical inspections and winning a prize in the Mega Marketing Round.
- BAJA SAE 2023 | E-loKE 1** *5<sup>th</sup>-8<sup>th</sup> April, 2023*
  - Led transmission system development for the **E-loKE 1 off-road vehicle**, collaborating with a team of 28 engineers.
  - Demonstrated skilled power tool operation for precise vehicle construction.

## INTERNSHIPS

- Hindustan Aeronautics Limited (HAL) | [LINK](#)** *10<sup>th</sup> June- 9<sup>th</sup> July, 2024*
  - Designed and analyzed the **Spur Gear Mechanism for the R-25 Aircraft Engine**, ensuring integration and compliance with HAL's quality standards.
  - Utilized CAD software and problem-solving skills to optimize gear design and improve system performance.
- Indian Rare Earths Limited (IREL) | [LINK](#)** *11<sup>th</sup> May- 10<sup>th</sup> June 2023*
  - Conducted a process study on mineral extraction and classification of sea sand into 5 types at the Mineral Separation Plant (MSP).
  - Gained hands-on experience in mineral processing operations, analyzing and optimizing extraction techniques.

## SKILLS

- Technical Skills:** SolidWorks, AutoCAD, Ansys, MATLAB, CorelDRAW, MS-Office, Machining, Welding
  - Soft Skills:** Leadership quality, Communication, Problem-Solving, Teamwork, Adaptability, Time Management
- (Hobbies & Interest-** Web Exploring, Cooking, Video Editing, Watching Cricket, Playing Online Games)

## CERTIFICATES

- ATVC 2024 | [LINK](#)** : 1st Runner-Up in Mega Marketing Round among 100+ teams nationwide.
- BAJA SAE 2023 | [LINK](#)** : Cleared Mechanical Technical Inspection at BAJA SAE 2023, surpassing 85 teams.
- NPTEL | [LINK](#)** : Completed NPTEL course on Fundamentals of Manufacturing with 77% score.