

# Akash Kumar Sahu

Mechanical Engineer

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## PROFESSIONAL SUMMARY

Results-driven **Mechanical Engineering student** with a strong academic record and extensive hands-on experience in **automotive design, thermal systems, and vehicle prototyping**. Demonstrated **leadership and technical expertise** as **Transmission Head** for multiple SAE vehicle projects, leading **teams of 25+ engineers** through design, fabrication, and technical inspections in national competitions. Proficient in **SolidWorks, AutoCAD, and ANSYS**, with a keen interest in enhancing mechanical system performance and efficiency. Eager to contribute skills in **design, analysis, and project management** to a dynamic engineering role.

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## EDUCATION

Veer Surendra Sai University of Technology, Burla, Odisha	2021-2025
B.Tech in Mechanical Engineering	CGPA/Percentage: 8.40
Aaryan Gurukul H S School, Berhampur, Odisha	2018-2020
Higher Secondary Education (12 <sup>th</sup> Class)	CGPA/Percentage: 89.00
Police High School, Chatrapur, Odisha	2017-2018
Secondary Education (10 <sup>th</sup> Class)	CGPA/Percentage: 80.50

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## PROJECTS

1. **Design & Development of Thermoelectric-Based Instant Beverage Chiller** *Major Project*
    - Designed and optimized a compact, portable beverage cooler utilizing a Peltier module, enhancing its cooling efficiency and performance.
  2. **BAJA SAE 2025 | E-IoKE 3.0** *20<sup>th</sup> – 25<sup>th</sup> February 2025*
    - Developing a 4WD EV for BAJA SAE 2025 using repurposed materials, gaining hands-on expertise in transmission systems and automotive design.
  3. **ATVC 2024- (Aravalli Terrain Vehicle Championship) | E-IoKE 2.0 | [LINK](#)** *20<sup>th</sup>-24<sup>th</sup> March 2024*
    - Led a 25-member engineering team as Technical and Transmission Head for E-IoKE 2.0, overseeing transmission system design, integration, and project execution.
  4. **BAJA SAE 2023 | E-IoKE 1 | [LINK](#)** *5<sup>th</sup>-8<sup>th</sup> April, 2023*
    - Led transmission development for the E-IoKE 1 off-road vehicle with a 28-member team, ensuring precision fabrication through skilled power tool operation.
  5. **Personal Portfolio** *Personal Interest*
    - Led transmission development for the E-IoKE 1 off-road vehicle with a 28-member team, ensuring precision fabrication through skilled power tool operation.
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## INTERNSHIPS

1. **Hindustan Aeronautics Limited (HAL) | [LINK](#)** *10<sup>th</sup> June- 9<sup>th</sup> July, 2024*
    - Designed and optimized the R-25 aircraft engine spur gear using CAD, ensuring HAL quality compliance.
  2. **Indian Rare Earths Limited (IREL) | [LINK](#)** *11<sup>th</sup> May- 10<sup>th</sup> June 2023*
    - Studied sea sand mineral extraction at MSP, gaining practical experience in processing and optimization.
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## 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)
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## CERTIFICATES

- **NPTEL | [LINK](#)** : Completed NPTEL course on Fundamentals of Manufacturing with 77% score.
- **BIS | [LINK](#)** : Participated in an open quiz on Quality and Standards organized by the BIS