Yashovardhan Mangalwedhe

+31 645557492 |yashovardhanm28@gmail.com | linkedin.com/in/yashovardhan-mangalwedhe—

Education

HAN University of Applied Science September 2024 – June 2028
Bachelor of Science in Mechanical Engineering *Arnhem, The Netherlands*

- **Completed First Year Propedeuse(Completed First Year with 60 credits)**
- **Grade Average:** 8
- **Relevant Coursework:** Powertrain systems, Heat transfer, Thermodynamics, Energy Systems, Production Technology, Statics, Dynamics, SolidWorks, 2d Drawings, Statistics, Professional Report Writing, Material Science

Experience

HAN Competitive Robotics September 2025 - Present
Chassis and Drivetrain Engineer *Arnhem, The Netherlands*

- Designing and prototyping the chassis and drivetrain for a Battle Bot.
- Working in a team with mechanical, embedded systems and electrical engineering students.
- Manufacturing of the Battle Bot and competing in European competition.
- Reporting and Documenting of all the work done during the project.

HART(HAN Automotive Rally Team) October 2025 - January 2026
General Member *Arnhem, The Netherlands*

- Assisted in the service and assembly of a rally car.
- Acquired deep technical knowledge on the working of suspension, internal combustion engine and other important parts of a rally car.

HAN University of Applied Science January 2025 - Present
Social Media Manager for Mechanical Engineering *Arnhem, The Netherlands*

- Handling the Instagram account for Mechanical Engineering(Werktuigbouwkunde) at the university.
- Promoting the course on an international level and making sure everyone gets information regarding the course.

Projects

Vibratory Conveyor Redesign and Structural Analysis September 2025 – January 2026

- Redesigned a vibratory conveyor support frame and drive system to meet strict industrial requirement.
- FEM: Conducted static, buckling and frequency analysis using SolidWorks to identify weakness and to verify redesign integrity.
- Validated the simulations with manual calculations
- Engineered a new drivetrain system by calculating spring stiffness,eccentric mass, frequency,etc. to achieve a particular amplitude.

Design and Manufacturing of Mechanical Battery January 2025 – June 2025

- Completed Research on how energy can be stored in mechanical way for example springs and flywheels.
- Designed and Prototyped a mechanical battery with the storage system being the torsional springs.
- Competed in a competition with other mechanical students and secured 2^{nd} place.
- Worked in a team with other students and documented the whole project in a professional manner.

Design and Manufacturing of a Wind Turbine September 2024 – January 2025

- Designed a wind turbine to connect to a pump, which helps to pump the water out from the Netherlands.
- Made the choice for the material and manufactured the wind turbine.
- Designed a pump which would be ideal for the purpose stated above.

Skills

Languages: English(C1 proficiency), Hindi, Dutch(Learning), German(Learning)
Software: AutoCad 2d and 3d, SolidWorks, MS Office, Codesys, Catia V5(Learning), CFD(Learning),Matlab(Learning), Labview, Latex and AI Tools
Hobbies: Photography, Reading, Biking, Working on cars and bikes
Certifications: IELTS(C1 proficiency), Vol-VCA Workshop Safety Diploma (Valid until October 2034)
Professional Skills: Report Writing, Documentation, Team Work, Team management, Multi Disciplinary Project