SRIJIT BASHYAL

Student at LUT University

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Lappeenranta, Finland

SUMMARY

I am a responsible and highly motivated student with a circular economy and sustainable mindset pursuing my bachelors in Mechanical Engineering. I am constantly seeking new challenges and experiences to grow both personally and professionally and committed to continuous learning and improvements.

EDUCATION

Everest English Boarding School

Bachelor in Technology and Engineering Science
Mechanical Engineering
2021 – 2023

Everest English Boarding School

High School
2018 – 2020

SKILLS

- CAD Modeling (SolidWorks, AutoCAD)
- Milling, CNC Machining, Additive Manufacturing
- Electrical Circuit Design and Wiring
- Data Analysis (Python and Excel)
- Mechatronics Simulation
- MATLAB, Simscape, Simulink
- Wind Tunnel Experimentation
- Structural Analysis (Siemens FEMAP)
- Problem-Solving
- Research and Development
- Adaptability

PROJECTS

- Wind Turbine Design - Designing and Manufacturing different types of wind turbines.
- Simulation of the Mechatronics System
- IoT Based Systems - Analysing Passenger flow at Helsinki Vantaa Airport
- Solar Power Plant - Energy Storage, Optimization, Generation and Spot Market Data

PROFESSIONAL EXPERIENCE

Junior research Assistant

LUT University | 06.2023 - 09.2023

- Aerodynamics research on vertical axis wind turbine
- Designing and manufacturing different types of rotors for research
- Wind Tunnel handling to take the force and rotational speed measurements.
- Measurement and calculations using Python and Excel

Teaching Assistant

LUT University | 08.2022 - Present

- Developed curriculum for Engineering Mathematics 1, Engineering Mathematics 2, Fluid Mechanics 1, and Basics of Renewable Energy Engineering.
- Assisted professor in lectures and lab sessions.
- Graded papers, assignments, and exams, providing constructive feedback.
- Collaborated on teaching strategies and assessment methods.
- Led review and feedback sessions for student support.

Robotic Arm Engineer

LUT Jamie Hyneman Center| 08.2022 - 05.2023

- Led a team in the successful design and assembly of a voice-controlled robotic arm.
- Demonstrated proficiency in CAD modeling and various manufacturing techniques.
- Implemented functionalities for Inverse and Forward Kinematics, Trajectory Planning, a Graphic Interface, and Voice Control.
- Conducted thorough testing and debugging of software, ensuring seamless integration of components.
- Overcame challenges related to mechanical precision and electrical circuitry, showcasing problem-solving skills.