Beno Shanthi

Passport: Y7196555

Date of birth: 23/01/2002

Place of birth: Thanjavur , India

Nationality: Indian

Gender: Male

CONTACT

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europass

WORK EXPERIENCE

Master Fab Engineering Industries Thanjavur, India

Design engineer

22/09/2023 – 28/09/2023

- Created detailed 2D drafting and 3D models for fabrication, incorporating material selection, welding requirements, and dimensional tolerances.
- Collaborated with production teams to refine designs for efficiency, reducing material waste by 15% through optimized layouts.
- Ensured all designs adhered to industry standards and customer requirements, achieving 100% approval during audits.

Solar Electric Vehicle Championship (SEVC) Trichy, India

Designer Intern

26/03/2022 – 24/04/2022

- Designed and analyzed key components of solar electric vehicle, enhancing vehicle's energy efficiency by 15% through optimized battery configurations.
- Conducted simulations to evaluate performance of renewable energy systems, achieving reduction in energy loss by 10%.
- Presented project findings and technical reports, contributing to 100% on-time completion of project.

EDUCATION AND TRAINING

20/06/2019 – 25/11/2023 Trichy , India

Bachelors of Engineering Anna University

Website https://www.annauniv.edu | **Field of study** Mechanical Engineering | **Final grade** 81.6% | **Level in EQF** EQF level 6 | **Thesis** Design and fabrication of Electrical vehicle

15/06/2018 – 13/03/2019 Thanjavur, India

Higher Secondary Examination Don Bosco Matriculation Hr Sec School, Tamil Nadu Board of Higher Secondary Education

Field of study Biology, Mathematics, Physics, Chemistry | **Final grade** 69%

19/06/2016 – 17/03/2017 Thanjavur, India

Secondary School Leaving Certificate Don Bosco Matriculation Hr Sec School, Tamil Nadu Board of Higher Secondary Education

Final grade 85.6%

LANGUAGE SKILLS

MOTHER TONGUE(S): Tamil

Other language(s):

English

Listening B2	**Spoken production** B2
Reading B2	**Spoken interaction** B2
Writing B2	

SKILLS

2D and 3D design software (Solidworks, AutoCad) | Ansys workbench CFX | GD &T | Catia v5 (Generative Shape Design, Part Design, Assembly Design, Drafting Design) | PTC Creo basics | Drafting drawings using AutoCAD

PROJECTS

2024

Design and Development of Electric Bike | SIEP E-Bike Challenge

- Designed and analyzed a robust chassis using Chromoly steel, achieving a Factor of Safety of 1.9 under various load conditions.
- Developed a high-efficiency braking system with hydraulic disc brakes, achieving a 73.33% braking efficiency and a stopping distance of 6.94 meters.
- Designed a mono-suspension system with a spring rate of 9.85 N/mm, enhancing rider comfort and off-road stability.

2023

Solar Electric Vehicle Championship Project – Advanced Design and Efficiency

- Redesigned the vehicle body based on aerodynamic principles, reducing drag by 15% and improving overall speed and performance.
- Enhanced battery efficiency by optimizing energy storage and usage, achieving a 20% increase in operational range per charge.
- Worked with a team to incorporate innovative sustainable energy solutions into the vehicle design.

2022

Solar Electric Vehicle Championship Project – Future Mobility

- Designed and built a prototype electric vehicle, focusing on energy efficiency and sustainability.
- Improved vehicle performance through aerodynamic design adjustments, leading to a 12% increase in speed efficiency.
- Integrated renewable energy technologies, achieving a 25% reduction in overall energy consumption.

CERTIFICATIONS

COURSERA, **22/12/2022**

People, Technology and Future Mobility

Mode of learning: Online

Link https://coursera.org /verify/6FG 87Q3644JR

COURSERA, **28/12/2022**

Introduction to battery-management systems

Mode of learning: Online

Link https://coursera.org /verify/5M D9JPPUGQKC

TVS Motor Company, **10/10/2022**

In- Plant Training

Mode of learning: Work based

NPTEL, **10/2022**

Engineering Metrology

Elite certification - 72%

Mode of learning: Online

NPTEL, **03/2022**

Mechanical and measurement system

Elite certification - 60%

Mode of learning: Online