DILLI BHASKAR

MECHANICAL ENGINEERING AT ANNA UNIVERSITY

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SKILLS

Professional Skills

- Python, C/C++
- SolidWorks
- Ansys FEA & CFD
- AutoCAD
- Pytorch
- CoppeliaSim (V Rep)

Personal Skills

- Fast learner
- Creative spirit
- Reliable and professional
- Organized
- Time management
- Team Worker
- Motivated

Languages

- English
- Tamil (Native)

AWARDS

- Runner up in **Hack4Good Hackathon** conducted by IEEE Computational Intelligence Society
- Gold Medalist in **Smart India Hackathon 2022** conducted by Govt. of India under the PS of **ICCE**

CERTIFICATIONS

- Silver Medalist in **Wheeled Mobile Robots – IIT MADRAS** – Course offered by NPTEL (MHRD)| 2022
- Awardee of certificate of excellence in **Aero Modelling – Aero World Aero Modelers Institute**

WORK EXPERIENCE

Production Helper | **Sree Balaji Electricals** | Chennai, TN
Jan 2022 - Feb 2022

- Responsible for maintaining stocks and assisted the production of Control Panel at every stage.

CFD Lab Intern | **Thiagarajar College of engineering** | Madurai, TN
Dec 2021 - Jan 2022

- Designed and analyzed the cycle helmet using **Ansys Workbench** and presented the work to domain experts

EDUCATION

B.E. Mechanical Engineering | ANNA UNIVERSITY
2020 - 2024 (present)

- **CGPA -** 8.92 (Year III)
- Volunteer in National Service Scheme (NSS)
- Member, Entrepreneurial Development Cell

VELAMMAL MATRICULATION HIGHER SECONDARY SCHOOL
2008 - 2020

- **HSC - 92.3%** (12th Board)
- **SSLC - 93.2%** (10th Board)
- Student Pupil Leader - 2019-20
- Member, Aeromodelling Club
- Member, Robotics Club

PROJECTS

- **Design and Analysis of Marine Engine Piston**
  Designed the piston for Detroit Diesel Engine 8V-71 in **SOLIDWORKS** and conducted static stress analysis using **Ansys Workbench**
- **Street Garbage Litter Detection**
  Developed a YOLO model for CCTV surveillance of Street Litter Detection
- **IOT integration on Shaker Machine**
  Developed a IOT based monitoring system for Shaker Machine with a Mobile App
- **LQR control for reaction wheel inverted pendulum simulation**
  Implemented Linear Quadratic Regulator control strategy for balancing the inverted pendulum equipped with a Reaction Wheel mechanism for Autonomous Package Delivery.