

# MUKUND KRISHNAN

MECHANICAL ENGINEER

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## SKILLS

### CAD

- **SolidWorks, Fusion 360, AutoCAD** used on various projects.
- **AutoCAD and SolidWorks** used to draft 2D engineering drawings.

### MECHANICAL

- Designed parts to be **Laser cut, CNC machined** and **3-D printed**.
- Designed and fabricated **pneumatic circuit** for automated industrial hammer.
- Implemented Root cause analysis, **DFMEA and DVP** for various projects.
- **Industrial robot modelling** on **MATLAB** to analysis its kinematic movements.
- Documented **design reports** for various projects.

### ELECTRICAL & SOFTWARE

- RobotStudio, Python, C++, Arduino, MATLAB, Soldering, Wiring.

### MANAGEMENT

- **Microsoft Projects** for planning and executing projects.
- Team lead in projects.

## PROJECTS

### ROBOT CELL

Created a robot cell using RobotStudio which performs simple welding operations.

### PATH GUIDING BOT FOR BLIND

Autonomous robot that guides visually impaired people to their desired location.

## EXPERIENCE

### L&T Shipbuilding | Mechanical Design Engineer Intern July-September 2022

- Understood the Working of a **Multinational Shipbuilding** Company by analyzing their workflow, technical systems, industry requirements and client's needs.
- Researched into the subsystems of ships such as hull, engine, propulsion, powertrain, accommodation, pipping, weaponry, fuel types.
- Designed and performed **gear reduction** calculations for gearboxes used in ships.
- Optimized existing **bilge keel designs** in ships to reduce weight but not lose the structural integrity by performing **Root cause analysis**.

### T.R. I Automotive: Student Start-up | Mechanical team lead July 2021 – April 2022

- Led the mechanical team in designing a solar powered electric vehicle and E-moped for Indian market using **SolidWorks** and **fusion 360**.
- Used **Matlab** and **Simulink** for motor modelling and range calculation for the vehicles.
- Used **Microsoft Projects** to plan and organize the startup.
- Gained recognition through multiple awards for developing extensive business plans for an emerging student startup.

### CEG Motorsports | Senior Steering Vertical Engineer May 2021-present

- The SAE Collegiate club of College of Engineering Guindy, Anna University which participates in **BAJA SAE India** by designing and fabricating All-terrain vehicle (ATV).
- Used **SolidWorks, AutoCAD, Lotus and Ansys** to design and evaluate suspension and steering system of ATV.
- Designed parts to be **Laser cut, CNC machined** and **3-D printed**.
- Worked with manual machining tool processes such as **buffing, grinding, cutting**.
- Performed **DFMEA** and **DVP** for the designed and fabricated ATV.

## EDUCATION

### CEG Anna University, Chennai

Bachelors in Mechanical Engineering

Aug 2020 - April 2024

### University of Skovde, Sweden

Semester exchange program in Mechanical engineering

Aug 2022 - Jan 2023