

# DHRUV BHOGLE

Mechanical Engineer, Designer

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Web: [www.bdhruv.in](http://www.bdhruv.in)

## Skills

### Software

Autodesk Fusion 360, Solidworks, Inventor,  
Autodesk Power Mill, Mastercam, Microsoft Office.

### Engineering

Manufacturing Operations, Design for Manufacturing,  
Product Development, Reverse Engineering, CNC  
Programming, NPD, Technical Demonstrations, Project  
Planning, Cost Estimations, 3D modelling, Jigs and  
Fixturing, Stress Strain Analysis, Material Technology.

## Personal Projects

### Pneumatic Exoskeleton Suit.

This project describes the mechanical design of a  
prototype upper body exoskeleton suit by using a  
pneumatic cylinder as an artificial muscle.  
Manufactured a working model which works on  
compressed air. Published a research paper on  
Development of Pneumatic Exoskeleton Suit.

### RYCHLOST-Electric Solar Vehicle Championship.

Led the Steering Designing Department of the team.  
Manufactured an Electric Solar vehicle which can run  
up to 25 km/hour on battery power and up to 4 hours  
just only on solar panels. Vehicle was designed so  
efficiently that it weighed just under 210kgs.

## Education

Bachelor of Engineering in Mechanical Engineering  
from S.S.P. M's college of Engineering, Kankavali,  
Maharashtra (2016-2020).

## Languages

English, Hindi, Marathi.

## Courses and Certifications.

### Post Graduation Diploma in Mechanical Engineering

Outcome: Solidworks, AutoCAD, Piping Engineering,  
HVAC, AVEVA PDMS.

### 3D Printing, Design and Application

Outcome: Sketchup software

### Electric Vehicle Dynamics- Battery and Transmission analysis

Outcome: Designing of Electric Vehicle.

### Solidworks- Udemy

Outcome: 3D modelling and Assembly.

I'm an experienced Mechanical Engineer with a primary focus on  
Product design and development. I specialize in developing  
products for various industries using designing principles,  
engineering skills along with 3D CAD-CAM software's when needed  
based on project requirements.

## Experience

### Design, Production Engineer at Evitar Systems Pvt. Ltd, Navi- Mumbai, Maharashtra, India (May 2021 to Present)

- Led the design and development of machining fixtures for various  
products according to required manufacturing strategies.
- Conducted iterative optimizations for developing fixtures with  
cost reduction up to **65%** also resulting in almost a **50%** decrease  
in manufacturing time.
- Recorded and optimised production cycles using new and  
improved machining strategies using latest features from the  
software like **Solidworks** and **Autodesk Fusion 360**.
- Led and owned all the responsibilities regarding **production** and  
development of new product, defining the tools, raw material  
requirement for the product, **workflow management** for  
production, Defining required **machining and manufacturing  
strategies** and developing **production plans**. Implemented and  
improved production process of the company by undergoing ISO  
auditing process held for company certification (ISO 9001:2015).
- Management of multiple projects from start to Finish, also  
undergone Project Quotation Development processes.
- Researched and Reverse Engineered latest Technological  
advancement in weapons industry.
- Prototype Development: External accessories for small Arms,  
Picatinny Rail attachment for Hand Guns, New and Improved  
Handguards for M4 and Ak47 rifles.

## Contact

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