

**BHEEMA JYOTHI KRISHNA PRAKASH**

5-63/5a,  
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**CAREER OBJECTIVE:**

Looking for a challenging job where I can work to the best of my abilities and contribute towards the organizational goals.

**ACADEMIC QUALIFICATIONS:**

S.No.	Course	Name of the Institution	Board/ University	Year of Passing	Percentage (%) / CGPA
1	B.Tech. (Mechanical)	S V College of Engineering, Tirupati	JNTUA	2022	75% (Till 7th Sem)
2	Intermediate (M.P.C)	Sri Chaitanya Academy Junior College, Tirupati	BIEAP	2018	91%
3	SSC	Gautham Talent High School, Tirupati	BSEAP	2016	8.7

**TECHNICAL SKILLS:**

- Modelling Skills: AutoCAD, CATIA V5, CATIA V6, SolidWorks, Fusion 360.
- Analysis Skills: Ansys.

**EXPERIENCE**

- Doing part-time in SOLTECH | FINDING SOLUTIONS – Here we are doing the CAD and Ansys related projects.

**CERTIFICATIONS:**

- Achieved certifications from Udemy on learning courses completions in CATIA V5, SolidWorks, and AutoCAD.

**ACADEMIC PROJECTS:****WEAPONOBOT****(January 22)**

In recent advancing times, human efforts are replaced by robotic automation. One such area where technology can solve for the greater good is the war zone. Considering the severe weather and geographical conditions of the war zones wherein invasions may happen anytime, the idea of building the “**WEAPONOBOT**” was born. “**WEAPONOBOT**” is an unmanned ground vehicle (UGV) that is compatible with all-terrain and combat regions that can be controlled remotely from the base control station. “**WEAPONOBOT**” can act as a surveillance system with the advanced features of an onboard camera. The real-time parameters of the robot and live feed can be transferred to the base control by telemetry. Its assembly/disassembly can be done easily within a short period. It is robust enough to be deployed for rescue operations and responding against the enemies through remote control.

**DESIGN PATENTS APPLIED:**

1. Applied one design (AUGER BORE) in patents and designs at Kolkata – INDIAN PATENTS OFFICE.

**PUBLISHED PAPERS:**

1. Published paper on “SMART TROLLEY” in the AICTE sponsored international conference on emerging technologies.

**MINI PROJECTS:**

- **BEAM ENGINE POWERED-CIRCULAR SAWING MACHINE**

([https://www.linkedin.com/posts/bheemajyothis\\_catiav5-dassaultsystemes-dassaultsystaeymes-activity-6806625168966983681-1ltV](https://www.linkedin.com/posts/bheemajyothis_catiav5-dassaultsystemes-dassaultsystaeymes-activity-6806625168966983681-1ltV))

Designed 'BEAM ENGINE POWERED-CIRCULAR SAWING MACHINE' using catiaV5 software through Part design, Generative shape design, Assembly workbench, and DMU Kinematics. Uploaded this design in “DASSAULT SYSTEMS” and won First under the Project of the year and IG competition.

The main aim of this project is to run a sawing machine by using a beam engine. A beam engine is a mechanism with a pivoted overhead beam used to transfer force to vertical connecting rods through pivoted links driven by the rotating wheel connected to the motor shaft.

Usually, the beam engine has a piston at the end to utilize the oscillatory motion. This was replaced by a cutting tool to achieve the sawing mechanism. The workpiece is fixed onto the bench vise on the working table attached to the beam engine wherein the cutting tool operates.

Worked on various other projects in designing using SolidWorks, Catia V5 software as detailed below.

Sl. No.	Project	Project Tools	References
1	Auger Bore Design	Designed in SolidWorks and Rendered through SolidWorks Visualize	<a href="https://www.linkedin.com/posts/bheemajyothis_solidworks-solidworksdesign-solidworks2022-activity-6868090340679794688-4lle">https://www.linkedin.com/posts/bheemajyothis_solidworks-solidworksdesign-solidworks2022-activity-6868090340679794688-4lle</a>
2	Drum Seeder	Designed through Catia V5 part design, assembled through assembly workbench, and kinematics did through DMU Kinematics.	<a href="https://www.linkedin.com/posts/bheemajyothis_designengineer-mechanicaldesign-farmequipment-activity-6832268275758571520-MkX9">https://www.linkedin.com/posts/bheemajyothis_designengineer-mechanicaldesign-farmequipment-activity-6832268275758571520-MkX9</a>
3	Waste Crushing Machine	Designed in SolidWorks and Rendered through Photo View 360	<a href="https://www.linkedin.com/posts/bheemajyothis_photoview360-solidworksdesign-solidworks2021-activity-6878658697569140736-pcX4">https://www.linkedin.com/posts/bheemajyothis_photoview360-solidworksdesign-solidworks2021-activity-6878658697569140736-pcX4</a>
4	Electric cycle Design	Designed through Catia V5 part design and assembled through assembly workbench.	<a href="https://www.linkedin.com/posts/bheemajyothis_electrical-cycle-design-catia-catia-dassault-activity-6814232435656683520-bday">https://www.linkedin.com/posts/bheemajyothis_electrical-cycle-design-catia-catia-dassault-activity-6814232435656683520-bday</a>
5	Pneumatic Workbench	Designed through Catia V5 part design, assembled through assembly workbench, and kinematics did through DMU Kinematics.	<a href="https://www.linkedin.com/posts/bheemajyothis_catiav5-dassaultsystemes-dassaultsystaeymes-activity-6815690519436517377-kanz">https://www.linkedin.com/posts/bheemajyothis_catiav5-dassaultsystemes-dassaultsystaeymes-activity-6815690519436517377-kanz</a>
6	Collaborative Robotic Design	Designed and assembled in Catia V5	<a href="https://www.linkedin.com/posts/bheemajyothis_collaborative-robot-design-catiav5-dmu-activity-6818591269607092224-xXF">https://www.linkedin.com/posts/bheemajyothis_collaborative-robot-design-catiav5-dmu-activity-6818591269607092224-xXF</a>
7	Skateboard design	Designed through SolidWorks part design and assembled through assembly workbench.	<a href="https://www.linkedin.com/posts/bheemajyothis_solidworksdesign-solidworks2021-keyshot-activity-6821289902106406912-IPBz">https://www.linkedin.com/posts/bheemajyothis_solidworksdesign-solidworks2021-keyshot-activity-6821289902106406912-IPBz</a>
8	F-35 Jet-Swivel Nozzle Mechanism	Designed in Catia v5	<a href="https://www.linkedin.com/posts/bheemajyothis_dassaultsystemes-solidworks-jets-activity-6839994399624167424-rxMg">https://www.linkedin.com/posts/bheemajyothis_dassaultsystemes-solidworks-jets-activity-6839994399624167424-rxMg</a>
9	Centrifugal Pump Design	Designed an impeller with different specifications using solidworks	<a href="https://www.linkedin.com/posts/bheemajyothis_dassaultsystemes-dassaultsystaeymes-dassault-activity-6843195033592721408-FMv">https://www.linkedin.com/posts/bheemajyothis_dassaultsystemes-dassaultsystaeymes-dassault-activity-6843195033592721408-FMv</a>

**MY DESIGN PORTFOLIO:** (<https://drive.google.com/file/d/1pImMM8gJlbu006rEq0HUS3kpzpao-KBW/view?usp=sharing>)

**ACHIEVEMENTS:**

- Awarded second place in 'Technical Quiz Competition' on 'Smart manufacturing and Industry 4.0' held by CMTI, Bengaluru on November 30th, 2021.
- Awarded first place in "Dassault systems"-Project of the year 2021(IG)
- Achieved 4<sup>th</sup> place MAKEATHON 2.0 Conducted by SKILL DEVELOPMENT & INCUBATION CENTER, JNTUA.
- Achieved 2<sup>nd</sup> place in CATIA event under departmental clubs' activity of MEA & SAE INDIA.

**INDUSTRIAL VISIT:**

- Visited SIBAR in Renigunta in 2019.
- Visited Indian Space Research Organization(ISRO) in 2019.

**WORKSHOPS/SEMINARS/WEBINARS ATTENDED:**

- Attended 7 Day AUTOCAD Workshop Conducted by APSSDC.
- Attended 15 Day Product Design and Drafting by CATIA V5 Workshop Conducted by APSSDC.
- Attended 2 Day project-based training program at JNTUA Kalikiri.
- Attended 10 Day workshop on Design and Reconstruction of E-Kart Conducted by SOHA TECHNOLOGIES PVT. LTD. PUNE.
- Attended 15 Day workshop on Electric Vehicle Design and Manufacturing Conducted by SOHA TECHNOLOGIES PVT. LTD. PUNE.MINI PROJECT

**STRENGTHS:**

- Leadership skills, Flexible, Quick Learner, and Team player

**PERSONAL DETAILS:**

Father's Name: B. Sreenivasulu

Date of Birth: 10-09-2000

Languages Known: English, Telugu

Hobbies/Interests: Listening to music, Playing Cricket

**DECLARATION:**

I hereby declare that all the above-mentioned details are true to the best of my knowledge.

**Place:** Tirupati

**Date:** 13-05-2022

(Bheema Jyothi Krishna Prakash)