

**NIRMAL**

**A J L A**

**MECHANICAL ENGINEER  
[B.E]**

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## Experience

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Yes, I spend 10 days automating a task I could've done in 10 minutes, but I never have to do it again.

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+91 7200770034

*Determined to learn more. I want to need to build robots. I think I'm funny. Furiously good listener, an even better team player. Laser Focussed when I have a goal and I always have a goal.*

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### National Service Scheme CEG Unit - 7 / Design Head

Aug 2019 - Aug 2023, Chennai

Organized and maintained the design and social media team of NSS unit and ensured the quality of graphic content being published.

*Graphic design and Talent and workload management.*

### CEG Tech Forum / Student Director of Design

Aug 2021 - Aug 2023, Chennai

Accomplish all jobs and responsibilities required from the design and social media team, while ensuring ideal brand perception and quality.

*Graphic design and Talent and workload management.*

### Technip Energies / Piping Engineer

Aug 2023 - Present, Chennai

To design the layout of hydrocarbon refineries and chemical plants. To route process pipes and ensure proper design of plants following the regulatory codes and standards.

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## Education

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### Mahatma MHSS / Higher Secondary

2019, Madurai.

Passed with 95%.

### College of Engineering Guindy / B.E Mechanical Engineering

Aug 2019 - May 2023, Chennai

Passed with a CGPA of 9.11 {out of 10} (converted scholaro GPA : 3.903)

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## Projects and Internships

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### Aerodynamic Analysis of a 3 wheeler / 6<sup>th</sup> Semester Project

Sep 2021 - Jan 2022

Analysis of design of a three wheeler with CFD and improve the aerodynamic properties of the vehicle

📄 [AERODYNAMIC ANALYSIS OF A THREE WHEELER.pdf](#)

### Design of String Drive Wheelchair / 7<sup>th</sup> Semester Project

Mar 2022 - Sep 2022

Modified and redesigned the drivetrain used in the current wheel to increase ease of use and mobility.

📄 [DESIGN AND ANALYSIS OF STRINGDRIVE WHEELCHAIR.pdf](#)

### Design and fabrication of Agricultural Smart bot / 8<sup>th</sup> Sem Project

Dec 2022 - May 2023

Designing and fabricating an electrically propelled bot that can perform several agricultural operations such as tilling, plowing, seeding and irrigating.

📄 [DESIGN AND AUTOMATION OF AGRICULTURAL SMART BOT-REPORT.p...](#)

### AMTDC - IITM / Internship (Research and Design Assistant)

Feb 2022 - June 2022

Designing a new pallet changer system for the FANUC Robodrill Alpha 21iLB.

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## Skills

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- |              |             |
|--------------|-------------|
| • Solidworks | • Python    |
| • Ansys      | • Flutter   |
| • Catia      | • Aveva E3D |
| • AutoCAD    | • BricsCAD  |
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## Other Skills

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- Freelance Graphic Designer (*Photoshop, Illustrator*)
  - Filmmaker [ [My Youtube Channel](#) ]
  - Video Editing (*Premiere Pro, Da Vinci Resolve*)
  - 3D & VFX generalist (*Blender, After Effects, Nuke*)
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## Languages

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- English [IELTS : 8]
  - Tamil
  - Telugu
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