

# VIGNESHWARAN A

BE MECHATRONICS ENGINEER

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## Objective

Detail-oriented Mechatronics Engineer with a passion for designing innovative solutions and integrating mechanical, electrical, and computer engineering principles. Seeking opportunities to leverage my expertise in CAD design using SolidWorks and experience in mechatronic system development to contribute to challenging projects and drive technological advancements.

## Education

- Bachelor of Engineering in Mechatronics (CGPA: 8.87)** **2019-2023**  
Hindusthan College of Engineering and Technology (Autonomous-Anna University), Coimbatore

## Skills

- SolidWorks (Software).
- 3D Modelling
- 2D Drawing
- 2D to 3D modelling
- Reverse Engineering

## Experience

**Freelance Design Engineer**

**July 2023 - Present**

### 2000 TRT Ladle

- Designed and implemented mechatronic control systems for a 2000 Kgs Teapot Refractory Treatment (TRT) ladle.
- Utilized 2D to 3D design techniques to develop comprehensive models for system visualization and analysis.
- Integrated sensors and actuators to automate ladle tilting and pouring processes, enhancing efficiency and safety.

### 1000 Kgs TRT Ladle

- Applied mechatronics engineering principles to optimize the performance of a 1000 Kgs TRT ladle.
- Conducted detailed 2D to 3D design conversions to facilitate the development and testing of control systems.
- Implemented real-time monitoring and feedback mechanisms to ensure precise control over ladle operations.

## Projects

### Project 1: Multi-Directional Controller

- Developed a multi-directional controller using Arduino and stepper motors, enabling precise control of movement in different directions.
- Implemented joystick-based direction control to improve user interface and enhance maneuverability.
- Integrated stepper motor drivers for efficient and accurate motor control, ensuring smooth operation of the system.
- Completed the project within a four-week timeframe, showcasing effective time management and project execution skills.

## References

Prem Anandh

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Karthik P

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