Muthu Krishnan Tirunelveli, Tamil Nadu

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Experience

INDUSTRIAL & CLUSTER TRAINING Steel Fabrication & Heat Treatment Companies – SIDCO, Coimbatore | Jan 2025 – Feb 2025
-
•**Analyzed** industrial heat treatment processes, including annealing, normalizing, hardening, and tempering, to understand metallurgical transformations.
•**Evaluated** the correlation between temperature, soak time, and various quenching media on the final mechanical properties of steel components.
•**Operated** within industrial furnace environments while strictly adhering to standard safety protocols and process documentation.
•**Executed** quality control procedures, including hardness testing and post-treatment inspections, to ensure parts met engineering specifications.

Education

SSLC (2020) | 94%

HSSC (2022) | 60%

Sankar Polytechnic College — Computer Engineering (2024) | 91%

PSG College of Technology — B.E. Mechanical Engineering (2026) | Progressing

Skills

TECHNICAL SKILLS : CAD, SolidWorks, Creo PTC Parametric,MATLAB

Programming & Computational Skills : • Database and Sql — Infosys Springboard (2023)

• C Programming — Infosys Springboard (2023)

• SQL Case Study-SQL Workshop — Infosys Springboard (2023)

• JAVA Features -- Infosys Springboard (2023)

Projects

VARIABLE SMART SUSPENSION SYSTEM

• Designed a real-time adaptive motorcycle suspension system using sensor feedback and stepper
motor control.
• Implemented load sensing using HX711 and 50 kg load cell for automatic stiffness adjustment.
• Achieved ±1 mm positioning accuracy using NEMA 23 stepper motor and ATMEGA328P controller.
• Improved ride comfort and handling through autonomous suspension adjustment.
• **Tools & Technologies**: ATMEGA328P, HX711, HC-SR04, L298, Proteus Professional,ANSYS.

Languages

•TAMIL

•ENGLISH