Arnav Matange

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EXPERIENCE

Reliance Industries Limited

Internship Training | Jun 2024 - Jul 2024

- Studied the application of the Rankine cycle in a captive power plant and its role in electricity generation.
- Studied the major components and their functions, including Boilers, Steam and Gas Turbines, Condensers, Deaerators, Pumps, and associated systems.
- Traced the steam-water cycle through the plant and calculated the total efficiency of the plant.

Adani Solar, Mundra

Summer Internship | May 2026 - Jun 2026

- Studied the end-to-end manufacturing process of solar cells, from raw material processing through cell fabrication and finishing.
- Evaluated the various engineering principles behind photovoltaic energy conversion and manufacturing
- Studied the major plant systems, including: Chiller plant, UPW (Ultra Purified Water) plant, ETP (Effluent Treatment Plant), PCW (Process Chilled Water) plant, Compressor room, HVAC and RCU systems

Projects

2 / 3-DOF Robotic Arm — Forward & Inverse Kinematics

- Developed a 2 and 3 DOF robotic arms using servo motors and Arduino, capable of controlled movement
- Implemented Forward Kinematics (FK) and Inverse Kinematics (IK) to determine the end-effector position from given joint angles.

SKILLS

Programming Languages | Python • C/C++ • MATLAB

CAD Software | SolidWorks • Fusion360

Embedded systems Platforms | Arduino • ESP32 • Raspberry Pi

Education

Vellore Institute of Technology (VIT), Vellore

B.Tech. Mechanical Engineering
Batch 27' | Vellore, TN
CGPA: 8.73 / 10

Kokilaben Dhirubhai Ambani Reliance Foundation School

CBSE | Class 10 & 12
Jamnagar, Gujarat
10^{th} : 94% and 12^{th} : 87%

Coursework

Coursera | Modern Robotics: Mechanics, Planning, and Control

Rigid-Body Motions
Forward Kinematics
Velocity Kinematics & Statics
Inverse Kinematics

Achievements

- Reached state level swimming in Khel Maha Kumbh, Gujarat
- Silver medalist National Science Olympiad 2016, school level
- Gold medalist - International Mathematics Olympiad 2017, school level

Extra Curricular

- second prize in inter-school drama competition
- Second place at Toast-masters Internationals Tall-tail competition