Kailash Kumar

Graduate Student

About Me

Web development and competitive programming are my interests. I enjoy problemsolving. I always reach for basics and new learning opportunities.

Contact

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📍 Rajasthan

Social Links

○ https://github.com/KailashKumar28

in https://www.linkedin.com/in/kailash-kumar-690557170/

Skills

C++
Python
HTML
CSS
Javascript
Bootstrap
LaTeX
Linux Desktop
Autodesk Inventor
Matlab
Figma
Prototyping

Education

Indian Institute of Technology (IIT) Gandhinagar
2018 - 2022
B.Tech-Mechanical Engineering

Aashtha Acadmy Sr Sec School, Sikar (Raj)
2016 - 2017
Other Qualification-12th Science Maths

Project

Force Control of motor driven pendulum
Developed a Mathematical model of a motor driven pendulum simulated PID controls outputs in MATLAB and later built a physical model for the same. Tested the model by tuning several parameters and performing position and force control for small external forces.

Gait trajectory optimization
Implemented forward and inverse kinematics approaches to get the best possible gait cycle trajectory for given leg skeleton data. I simulated more than ten trajectories for different leg skeleton swings—used python with libraries NumPy pandas Matplot etc.

Product Management
Designed an MVP product from scratch through consumer identification Market research Development Marketing revenue planning and Avenues for future growth. Worked as a team of 3 members and made a clean prototype using Figma.

Achievements

1. Scored 196 out of 360 in JEE Mains 2018 with an OBC rank of 1143.
2. 1646 OBC rank in JEE Advance 2018.
3. Secured place in the top 100 on the NTSE exam in 2015.