

Tushar Pethkar

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GITHUB | HACKERRANK | LINKEDIN

EDUCATION

CDAC BANGLORE

POST GRADUATION DIPLOMA DEVELOPMENT IN ADVANCED COMPUTING(CDAC)

Percentage: 61%

march 2022 - sept 2022

Bangalore, Karnataka

K. K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH

BACHELOR PRODUCTION ENGINEERING

CGPA: 6.62

july 2016 - july 2020

Nashik, Maharashtra

K.T.H.M COLLAGE, NASHIK

HSC 12 TH

Percentage: 59%%

july 2015 - july 2016

Nashik, Maharashtra

MARATHA HIGH SCHOOL, NASHIK

SSC 10 TH

Percentage: 85%%

july 2013 - july 2014

Nashik, Maharashtra

SKILLS

PROGRAMMING LANGUAGES

LIBRARIES/FRAEMWORKS

TOOLS / PLATFORMS

DATABASES

JAVA, JAVASCRIPT, .NET, SHELL, BASH

REACT.JS, NODE.JS, EXPRESS

ECLIPSE, VS CODE, MERN

MYSQL, MONGODB

PROJECTS / OPEN-SOURCE

E-COM-WEB-APPLICATION | [LINK](#)

React.js, Node.js, Mongodb, Express

Web application created using MERN technologies. Frontend is made with react.js and backend with Node.js. Database technology used is Mongodb. Web application uses express for routing routes, JWT for web/session tokens, bcrypt for hashing or encoding passwords of user for protection, Bootstrap is used for styling in front end, axios module used for communication with frontend and backend. Admin panel and inventory roles have extra access in website to manipulate users and products.

OPTIMIZATION OF PROCESS IN WHICH TWO 6 AXES ROBOTS WORK SPOT WELDING OPERATION

Inverse Kinematics

This project had been done at JBM AUTO LTD, SATPUR, NASHIK. Job is lower cowl panel of XUV300. We had changed the program of both robotic arms to achieve optimum path(89 points has to spot weld).We have used inverse kinematics to get the combinations in which robotic arm not collide. Cycle time reduced from 208 sec to 134 sec. JPH increased by 9.6 units.

DESIGN, PRINTING, PROGRAMMING AND ASSEMBLY OF 6 AXIS ROBOTIC ARM MANIPULATOR WITH BLUETOOTH ANDROID APP CONTROLLER

Arduino/C programming, Inverse Kinematics,

Robotics

C programming is used in the robotic arm arduino controller. We have made design in PRO-E, programmed and made HMI to command robotic arm. HMI is a mobile application made on app inventor. It is made up of 6 servo motors which is inspires from the above project used robots.

CERTIFICATIONS

- Inter Collage Football competitions