ABHIJITH C J

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Biography

Aiming to leverage my abilities to be successful in an adaptable profession with planning, teamwork and skills. Looking forward to work and develop new skills relevant for a career in Engineering.

Educational Qualification

Diploma in Mechanical Engineering **2021**
State Board of Technical Education and Training. *Trivandrum*

Senior Secondary (Class 12th) **May2018**
Department of Vocational Higher Secondary Education, Kerala. *Thiruvananthapuram, Kerala, India.*

Matriculation (Class 10th) **May2016**
Technical High School *Shoranur, Kerala, India.*

Projects

2021 Welding slag removal machine

| *Under The supervision of Prakashan, Head of the department .*

- **Abstract**: *Welding is the process of joining of two materials by using filler rod, while joining the materials the high amount of heat is generated in welding surface, so oxidation can take place over the job, in order to prevent the oxidation the flux material is coated over the welded area. This flux coating is removed while send to the job for next operation like machining, painting etc, but it a terries process to clean the flux manually, and it need huge amount of skilled labor, in order to avoid that welding slag cleaning machine is used. This machine has a circular wire brush which is mounted over the shaft; this shaft is connected with electric motor. The job is hold in the fixture, this fixture setup is moved by rack and pinion arrangement, so by this to and fro motion job will move front and back against the job, so job will automatically cleaned easily.*

2021 *Compact power Hammer*

| *Under The supervision of Prakashan, Head of the department .*

.Abstract:This project aims at designing and fabricating an automated hammering machine that can perform hammering operations without the involvement of any human operator. This project is selected because no such machines are available in these industries. The introduction of an automated hammering machine in the industries will help the industries in prospering and it will make the operations safe and easy. Moreover, the project will have a greater impact on the metal industries. The machine will be capable of performing fast and accurate hammering operations with the help of a 16V battery. Mild steel is used for fabricating the machine. A large pulley and a shaft are connected with the help of a connecting rod. The spinning shaft will provide lateral motion to the rod. A mid-swinging arrangement is used for attaching the hammer and the connecting rod. A suitable bed will be developed for holding the workpiece. Solidworks is used for designing the machine.The main objective of the project is to develop an automated hammering machine with the help of a pulley, shaft, connecting rod, hammer, and 16V battery to provide ease for the hammering operations. Future work may involve the development of a body case for the machine.

Technical Skills

Programming : C++, Python.

Known Languages : English, Malayalam, Tamil, Hindi.

Operating Systems: Windows, Linux.

Softwares: MS Office, WPS Office, Adobe Photoshop, Adobe Illustrator, Solidworks, Catia, Autocad

General Skills

- Reliability
- Teamwork
- Problem Solving
- Public speaking
- Oral Communication
- Social work

Highlights

- OJT - Computer Training
- Renewable Energy from NVEQF level 1 and 2