

Naeem Nasar Bate

Email: batenaeem10@gmail.com Mobile No : +971523202643 Address: 1004, Awqaf Building, Amman Street, Al Nahda 2, Dubai, UAE Visa details: Employment

EDUCATION

Bachelor of Engineering (Mechanical Engineering) 2014 – 2018 Pillai College of Engineering Mumbai University, Mumbai, India

B.E FINAL YEAR PROJECT

Design and development of programmable device for inspection of metallic surface The objective of the project is to build low cost device for various types of inspection of metallic surfaces in various industries, eliminating traditional method of scaffolding and inspecting.

AREA OF INTEREST

- Project Engineer
- Project Management
- Site Operation, Planning and Scheduling.
 - Production, Risk Management.

SOFTWARE KNOWN

AutoCad

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- Maximo
- Solid Works

LANGUAGES KNOWN

- English
- Hindi
- Marathi
- Urdu

KEY SKILLS

- Project Management
- Problem Solving
- Strong Written & Verbal Communication
- Quick Learner & Active Listener
- Time Management
- Good Team Player
- Excellent Organization Skills
- Ablity to work under tight schedule

WORK EXPERIENCE

Beaver Gulf Contracting LLC Dubai, UAE.

Designation : Mechanical Engineer.

December 2018 – August 2020

- Ensure the HVAC Duct, Fittings, accessories and Chilled water pipes are available and approved by client prior to installation.
- Accountable for fulfilling production, planning, supervising labour workforce, tools, providing technical help to complete the work scope according to the needs.
- Preparation of (FDCR) Field Design Change Request and (TQ) Technical Query for client approval.
- Project execution, Site Supervision end to end responsibility of the given position of the project.
- Interaction with contractors, project management team and clients and maintain lasting and positive relationship.
- Coordinate with production team and ascertain compliance with established contraction schedule and project requirements.
- Coordinate meeting with clients and sub-contractors weekly basis.
- Present design to client and review of the same.
- Providing technical clarifications and better suggestions to the clients.
- On site inspection and quality check.
- Manage site activities and resolve site issues.
- Handling labour on site, implementation of manpower.
- Quality Assurance of the manufactured product.
- Reviewing construction drawings, cooridination drawing & designs for approval.
- Review reports and records.
- Preparing (MIR) Material Inspection Report, (IR) Inspection Report and (RFI) Request for Information as per requirement throughout the project.
- Preparing (MOM) Mintes of Meeting regarding site progress as required.
- Aiding in product estimation along with Estimator team.
- Preparation of cost estimates for project design and construction.
- Work in conjunction with engineers to solve project design problems, performing basic design calculations as required.
- Work under the direction of the Technical Lead.
- Performs other responsibilities associated with this position as may be appropriate.

PERSONAL INFORMATION

Date of Birth : 10-March-1996 Nationality : Indian Marital Status : Single Passport No : S7533851

INTERNSHIP

1. SKA Contracting (Mumbai)

Structural Engineer Intern.

- Learned applicable field knowledge of contraction sites.
- Visited Project Site during contraction to monitor progress and consult with contractors on site engineers.
- Identified and resovled potential structural isuue.
- Developed teamwork skills.
 - 2. Central Railway in Maintenance

and Inspection Department.

(Navi Mumbai)

December 2016 - January 2017

- Completed internship on inspection and maintenance of Central Railway.
- I have been imparted training on working on both mechanical and electrical system of EMU Electrical Mechanical Unit of rake being used at Mumbai Suburban service.

WORK EXPERIENCE

Harihar Engineering Works (Godrej & Larson & Toubro) Mumbai, India.

Designation : QA/QC Engineer.

May 2018 – November 2018

- Develop technical reliability skills.
- Preparation, analysis and communicate all the related technical documents to orders from the customer such as OAP (Ouality Assurance Plan).
- Preparation and communicate with all the related documents for production on the shop floor.
- Quality Assurance of the manufactured product before and after production.
- Responsible for quality reporting, fabrication, quality verification.
- Preparation of all the related documents related to delivery of all the jobs like E-way bill, challan, Invoice and any other documents.
- Apply sound, systematic problem solving methodology in identifying, prioritizing communicating and resolving quality issues.
- Reviewing vendor's drawings.
- Preparation and communicate with all the related documents for production on the shop floor.
- Preparation and communicate analyses the offers against the inquiries received from the customers.
- Corrective measures meet acceptable reliability standards.

with a Cumulative Grade Performance Index of 5.71 out of 10.00 8-BENG-18M-561-5328246 of Mahatma Education Society's Pillai College of Engineering for the examination held in MAY 2018 Members of the Management Council **BACHELOR OF ENGINEERING BATE NAEEM NASAR SAFIYA** the Chancellor, the Vice Chancellor (Mechanical Engineering Branch) held on 11th January 2019. confer the Degree of at the Convocation and Aniversit Prof. Suhas Pednekar | प्रा. सुहास पेडणकर Vice Chancellor | कुलगुरु 111111 महात्मा एज्युकेशन सोसायटीचे, पिल्लाई कॉलेज ऑफ इंजिनिअरिंग • संचयी श्रेणी संपादित निर्देशांक १०.०० पैकी **५.७**9 दीक्षान्त समारंभात प्रदान करीत आहोत. व्यवस्थापन परिषदेचे सदस्य ११ जानेवारी २०१९ च्या मे २०१८ मधील परीक्षेत बाटे नईम नसर साफिया (यंत्र अभियांत्रिकी शाखा) अभियांत्रिकी स्नातक उत्तीर्ण झाल्याबद्दल कुलपता, कुलगुरू ही पदवी आणि याना 0000 1057573 N O



CENTRAL RAILWAY



Sr.DEE (TRS)'s OFFICE, Sanpada Carshed, NAVI MUMBAI.

No.SNPD/RS/Misc/21

January 4, 2017

The Principal, Pillai Institute of Information Technology, Engineering College, New Panvel Navi Mumbai – 410206

Sub:- Completion of Industrial Training.

This is to certify that **Mr. Bate Naeem Nasar** student of Pillai Institute of Information Technology, Engineering College, New Panvel, Navi Mumbai has taken impart training from 22.12.16 to 04.01.17 at Sanpada carshed, Central Railway, Sanpada Navi Mumbai - 400705.

During above training period, he has been imparted training on working of both **Mechanical components and Electrical system** of EMU rakes being used at Mumbai Suburban service.

2017 (Ramendra Rai) ADEE (TRS) SNPD

स्रहायक मंडल विद्युत इंजिबीसर ई.एम.यू. कारशेड, सानपाडा, मध्य रेल. Asst. Divisional Electrical Engineer, EMU Carshed, Sanpada, C. Riy. Navi Mumbal CENTRAL RAILWAY

No.SNPD/RS/Misc/21

Sr.DEE (TRS)'s OFFICE, Sanpada Carshed, NAVI MUMBAI.

December 22, 2016

To, The Principal, Pillai Institute of Information Technology, Engineering College, New Panvel Navi Mumbai - 410206

> Sub: Permission for Industrial Training. Ref: Your L=No. SCOE/Admin/Mech/342 dt. 19.12.16

As per your college letter mentioned under reference addressed to this office, permission has been granted for Industrial Training to Mr. Bate Naeem Nasar from 22.12.16 to 30.12.16 in Heavy Repair section & 01.01.17 to 04.01.17 in Inspection section on working days only.

Kindly instruct the students to abide rules & regulation of the shed and maintain

Since there is lot of movement of rakes / shunting of coaches hence instructed to be more careful while venturing in shed premises. The Railway Administration will not be held responsible for any mishap/accident during Industrial visit period

(V.B. Singh) ADEE (TRS) SNPD

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SSE / HR & Insp. - For information & to co-ordinate.



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ENGINEERS & CONTRACTORS 17/C, Sitafalwadi, Dr. Mascarenhas Road, Mazgaon. Mumbai – 400 010 Tel.No.-022 23727405 • Telefax – 022 23726643 • e-mail – pragneshchitroda@rediffmail.com

TO WHOM IT MAY CONCERN

This is to certify that Mr. Bate Naeem Nasar son of Mr.Nasar Abdulla Bate has been employed by Harihar Engineering Works Mazgaon ,Mumbai as Trainee Q.C Engineer in Technical Department during the period of from July 10,2018 to November 14, 2018.

His skills and qualifications proved successful with regards to task assigned to him.

We wish him success in his future endeavors.



Mr. Pragnesh Chitroda

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Tel.No.-022 23727405 • Telefax - 022 23726643 • e-mail - pragneshchitroda@rediffmail.com



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by

Naeem N. Bate after review is found suitable and has been published in

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By men

Editor in Chief, **iJRASET**

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TOGETHER WE REACH THE GOAL IMPACT FACTOR : 6.887



Wall Climbing Device for Inspection of Large Metallic Surfaces

Naeem N Bate¹, Rajat R Gadhave², Vibhav V Pradhan³, Viraj M Chawan⁴

^{1, 2, 3, 4}Mechanical Engineering Department, Pillai College Of Engineering, Mumbai University.

Abstract: This paper presents a simple, economical yet effective tool for carrying out inspection task. There is a shear requirement of the inspection to be carried out in industries in order to prevent or cure the problems. The aim is to design and develop a wired wall climbing device. The device will use magnets mounted on wheels which will hold it on the metallic surface due to magnetic attraction and the drive will be provided by DC Geared motors. The device can be used for inspection of large metallic surfaces for the detection of cracks, corrosion and other problems on the exterior and interior of large metallic tanks. Our team is responsible for design and fabrication of the device. Designing of the RC controller will depend on types of sensors mounted and application of the device.

There are a various methods used for inspecting problem areas on metallic tanks. Prevalent method of inspection is to construct scaffolding structure and to manually inspect the required area by sending up an operator. This method is time consuming and also dangerous for the operator. Our team intends to design a device that uses DC power supply to power all aspects of the device including motors, controller, and sensors. A tether cable will allow communication with the device and motion control will be achieved by wired RC controller. This allows the operator to control the device and receive real time data from device.

Live streaming of video from camera will be sent to the operator console to guide the device, analyze and to record the data. The camera is mounted on Pan Tilt mechanism which allows camera to be swivelled to left-right and up-down allowing it to have a wide area of coverage. The motion of Pan Tilt will be controlled from operator console. The device is also incorporated with slider mechanism to have continues inspection and cover more area of inspection. This slider could be used to mount sensors which will be used for inspection. The data available from device can be stored and analyzed to predict catastrophic failures that might lead to capital, human, environmental loss. Thus it will result in cost effective and reliable inspection device. Keywords: Inspection, Device, Large Metallic Surfaces, Magnets, RC Control, Drive Wheels, Live Streaming, Recording.

I. INTRODUCTION

Storage tanks require inspection at regular intervals to ensure deterioration is detected at an early stage. Effective inspection identifies the repairs required before the point where leakage or other failures occur, avoiding environmental contamination, product loss, or even catastrophic failure [11].

The material and the weld are inspected for manufacturing defects when constructed but must also be periodically inspected throughout their service life for signs of damage. The carbon steel is prone to attack by corrosion and in some circumstances cracks can form over time [12]. NDT personnel use visual, X-ray, ultrasonic and other inspection methods to search for flaws and service-induced damage as shown in fig. 1.



Fig. 1 Evidence of Shell Corrosion [13]