RATHOD KARTAVYA BHARATBHAI | 13NA30015

OCEAN & NAVAL ARCH / OCEAN ENGG. NAVAL ARCH. (M.Tech Dual 5Y)
MICRO SPL. in ENGINEERING SYSTEMS RELIABILITY, OPTIMIZATION THEORY AND APPLICATIONS, INTELLIGENT LEARNING SYSTEM DESIGN

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2018	M.TECH Dual Degree 5Y	IIT Kharagpur	7.59 / 10
2013	Higher Secondary Certificate Examination	Gujarat Secondary & Higher Secondary Board	83%
2011	Secondary Examination	Gujarat Secondary & Higher Secondary Board	90.8%

COURSEWORK INFORMATION

Programming and Data Structure, Data Structure And Algorithm, Graph Theory And Algorithm, Probability And Statistics, Operation Research, Reliability Design, Economics, Optimization Theory in Finance, Basic Electronics, C and C++, Full-Stack Development Specialization (Coursera).

SKILLS AND EXPERTISE

* Skills:-C, C++, Data Structure, Algorithm, HTML, CSS, Javascript, AngularJs, NodeJs, AJAX, Python, MATLAB, CFD, Solidworks, Git
* Expertise:- Algorithmic Coding, Competitive Coding, Application &Software Development, Web &UI/UX Development, Operation Management
* Minor in Mathematics And Computing

TRAINING

WorldQuant LLC

* Learned Portfolio Management by creating Mathematical Expressions and Complex Algorithm as a Summer Trainee

ACADEMIC PROJECTS

European Space Agency (ESA)

* Worked for European Space Agency in their open source project, Python Parallel Global MultiObjective Optimizer(PyGMO)
* Coded various Optimization Techniques and Algorithms that can be included in their library, helpful in developing Aerospace Application

Downy(Node Js Module)

* Developed a NodeJs Module to provide the service of getting API status of Facebook and GitHub, available on NPM packages

Torsional Vibration of container ship in Oblique seas

* Calculated the torsional vibration of container ship through MATLAB and Finite Element Method,with most accurate result and Bagged 3rd position

INTERNSHIPS

Oracle, Mumbai

* Developed prototype for Oracle Banking Platform, performed feasibility analysis and provided recommendation as an Application Developer
* End to End integration of AngularJs in Oracle Banking Platform, thereby enhancing performance and maintainability of the application by providing Two-way binding of the database, solved critical issues and introduced new modules in Oracle Banking Platform OBP v 2.5.1
* Spearheaded Incident Management, Enhancement &Change Request activities as a Consultant for Westpac Bank in OBP v 2.5.1

National Institute of Oceanography, Goa

* Formulated models and analyzed the output generated by 10 wave energy converters at the different coastal locations through MATLAB
* Calculated Efficiency of each WEC through Interpolation Techniques and Regression with 76% accuracy in the results.

AWARDS AND ACHIEVEMENTS

Summer Research Fellowship by Indian Academy of Sciences(IASc, INSA, NASI)

* Fellowship Awardee by Indian Academy of Sciences, among the top 50 students in India.

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* Secured 55th International rank in 15th NSO Level-1,703th in 15th NSO Level-2, 754 in 13th NSO, 420th in 6th IMO, 816th in 5th IMO

Baroda High School,Alkapuri

* Among the top 10% student in National Standard Examination of Physics, Project Presentation at Physical Research Laboratory
* 1st in GUJCOST Science Quiz (District Level), 3rd position in All Baroda Inter-school Maths Quiz, Highest in Maths,Class 12th and 10th in Gujarat

POSITIONS OF RESPONSIBILITY

Team Head, Web Development Team, Gopali Youth And Welfare Society

* Head of Web Development, led a team of 15 students,

Executive Member, Web Development, Gopali Youth And Welfare Society

* Spearheaded change requests and enhancement in websites frontend and backend, collected fund of Rs.2.16 Lakhs for School Construction.
* Logistics in-charge of Yogdhaan,an anual donation drive at IIT Kharagpur, Annual Medical Camp and 7th Annual Day- Aashayein

Member, Project Management Team, Gopali Youth and Welfare Society

*Part of Yogdhaan, Professor Collection and E-Samadhaan projects of GYWS with other school activities like Independence Day, Republic Day

PUBLICATION DETAILS

Resonance- 2015

Output power generated by 10 wave energy converter at shelf seas of India