Surname **Name** Father

Indian Institute of Technology, Goa

Fourth Year **Undergraduate** , **Mechanical** Engineering
Add: B 204, Royal lake Apts., Brother Patil Road, somewhere in, Pune, MH 411000
e-mail : **shaja.india@iitgoa.ac.in** • Phone : **+91 99XXX XXXXX**

Objective

Candidate for Bachelors of Technology, Mechanical Engineering from the School of Mechanical Sciences, IIT Goa. Relevant Coursework: Finite Element Method, Continuum Mechanics, Mechanics of Materials, Fluid Mechanics, Heat Transfer, Thermodynamics, Applied Thermodynamics, Kinematics and Dynamics of Machines, Mechanical Measurements, Numerical Analysis, Microprocessor and Automatic Controls. // placeholder

Education

Indian Institute of Technology Goa
Batch of 2016-20 | CPI: 7.96/10.00
- Candidate for Bachelors of Technology, Mechanical Engineering from the School of Mechanical Sciences, IIT Goa.
- Relevant Coursework: Finite Element Method, Continuum Mechanics, Mechanics of Materials, Fluid Mechanics, Heat Transfer, Thermodynamics, Applied Thermodynamics, Kinematics and Dynamics of Machines, Mechanical Measurements,Numerical Analysis, Microprocessor and Automatic Controls.

Rajiv Gandhi School of E-Learning and Science Junior College, Pune
Maharashtra State Board 2013-15 | Score: 78%
- Did Matriculation from Maharashtra HSC in Sciences with Bio-focal in Computer Sciences.

B. Tech Project

Building an optical tomography setup for flow visualization using off-the-shelf components
Under the guidance of Dr Anirudha Ambekar
- Optical tomography is a scientific imaging technique that creates a digital volumetric model ofthe region of interest by reconstructing images made from light transmitted and scatteredthroughout the region.
- It can be used to monitor the flow-fields under various conditions. Theproject aims to build such a system using off-the-shelf cameras and components. // placeholder

Course Projects & Technical Experience

Microprocessor and Automatic Controls Lab, IIT Goa: Robot for crack detection in Pipes [Academic Project]
January-April 2019
- Design and Manufacture a Robot to detect cracks in the interior of a Pipe using Ultrasonic Sensors.

Environmental Sciences, IIT Goa: "Water Water Everywhere, Not a Single Drop to Drink"[Academic Project]
January-March 2019
- An Academic Case Study of the Mumbai Floods, Marathwada Droughts and Blue Green Infrastructure.

IIT Goa Motorsports
Co-Founder and Chassis Design In-Charge| Nov-Sept 2017
- Co-Founded an Institute Motorsports Team to compete in the national collegiate level competition, Formula Bharat.
- Designed the steel framed tubular chassis and helped design the bodyworks for a Formula Style Electric Racing Vehicle.

Work Experience

Kalyani Centre for Technology & Innovation
Summer Engineering Intern | May-June 2019
- Designed a fixture and testing Specimen for High Cyclefatigue test with axial loading of Transverse Butt Welded GMAW/MIG (Gas Metal ArcWelding/Metal Inert Gas) Steel Specimen.
- Performed metallography tests on welded metal specimen.
- Studied the results of the metallography and tensile tests.

Applied Mechanics Lab, IIT Kanpur
Intern under the Guidance of Dr Ishan Sharma, Applied Mechanics Lab, IIT Kanpur | May-June 2018
- Designed Apparatus to Study the Flow of Grains around rotating and gravitating body.
- Analysed Granular flow around obstacles using Discrete Element Method Software LIGGGHTS.

Bajaj Auto Ltd. Chakan
Intern | Dec 2017
- Project: Development of online gauging system in Cam Shaft and Crank Shaft Assembly.

Institute Technical Summer Project-IIT Bombay
Summer Project | June-July 2017
- Designed and built a two-digit robotic arm with 360-degree swivel.
- Drafted and programmed a multi-functional and multi-modal Bluetooth-enabled app interface to control the arm.

Extracurriculars & Positions Of Responsibilities

Teaching Assistant for the Course CE 102:	Engineering Mechanics, Spring Semester 2018-19, IIT Goa
Cult Rang, Creative Solutions Team In-Charge:	IIT Goa Cultural Festival Organising Team [Dec 2018-Present]
Co-Founder, Design and Layout Executive:	IIT Goa Institute Editorial Board: Gurukul Varta [Aug 17- Jan 2019]
Branch Representative:	IIT Goa B. Tech Mechanical Engineering, Academic Year: 2017-18
Teaching Assistant for the Course CS 101:	Computer Programming, Autumn Semester 2017, IIT Goa

Skills

Computer Skills:C, C++, AutoCAD, Solidworks, Autodesk Inventor, Discrete Element Method using LIGGGHTS and LAMMPS, MATLAB, Simulink, Scilab, Gnuplot, Ovito, Adobe InDesign, Adobe Illustrator, Inkscape, MS Word, MS Excel

Manufacturing Processes:CNC, Welding, Lathe Machine Operations, Drilling, Milling, Shaper Machine Operations

Surname **Name** Father

Indian Institute of Technology, Goa

Fourth Year **Undergraduate** , **Mechanical** Engineering
Add: B 204, Royal lake Apts., Brother Patil Road, somewhere in, Pune, MH 411000
e-mail : **shaja.india@iitgoa.ac.in** • Phone : **+91 99XXX XXXXX**
LInkdIn / Github and Links

Objective

Candidate for Bachelors of Technology, Mechanical Engineering from the School of Mechanical Sciences, IIT Goa. Relevant Coursework: Finite Element Method, Continuum Mechanics, Mechanics of Materials, Fluid Mechanics, Heat Transfer, Thermodynamics, Applied Thermodynamics, Kinematics and Dynamics of Machines, Mechanical Measurements, Numerical Analysis, Microprocessor and Automatic Controls. // placeholder

Education

Indian Institute of Technology Goa
Batch of 2016-20 | CPI: 7.96/10.00
- Candidate for Bachelors of Technology, Mechanical Engineering from the School of Mechanical Sciences, IIT Goa.
- Relevant Coursework: Finite Element Method, Continuum Mechanics, Mechanics of Materials, Fluid Mechanics, Heat Transfer, Thermodynamics, Applied Thermodynamics, Kinematics and Dynamics of Machines, Mechanical Measurements,Numerical Analysis, Microprocessor and Automatic Controls.

Rajiv Gandhi School of E-Learning and Science Junior College, Pune
Maharashtra State Board 2013-15 | Score: 78%
- Did Matriculation from Maharashtra HSC in Sciences with Bio-focal in Computer Sciences.

B. Tech Project

Building an optical tomography setup for flow visualization using off-the-shelf components
Under the guidance of Dr Anirudha Ambekar
- Optical tomography is a scientific imaging technique that creates a digital volumetric model ofthe region of interest by reconstructing images made from light transmitted and scattered throughout the region.
- It can be used to monitor the flow-fields under various conditions. The project aims to build such a system using off-the-shelf cameras and components. // placeholder

Course Projects & Technical Experience

Microprocessor and Automatic Controls Lab, IIT Goa: Robot for crack detection in Pipes [Academic Project]
January-April 2019
- Design and Manufacture a Robot to detect cracks in the interior of a Pipe using Ultrasonic Sensors.

Environmental Sciences, IIT Goa: "Water Water Everywhere, Not a Single Drop to Drink"[Academic Project]
January-March 2019
- An Academic Case Study of the Mumbai Floods, Marathwada Droughts and Blue Green Infrastructure.

IIT Goa Motorsports
Co-Founder and Chassis Design In-Charge | Nov-Sept 2017
- Co-Founded an Institute Motorsports Team to compete in the national collegiate level competition, Formula Bharat.
- Designed the steel framed tubular chassis and helped design the bodyworks for a Formula Style Electric Racing Vehicle.

Work Experience

Kalyani Centre for Technology & Innovation
Summer Engineering Intern | May-June 2019
- Designed a fixture and testing Specimen for High Cyclefatigue test with axial loading of Transverse Butt Welded GMAW/MIG (Gas Metal ArcWelding/Metal Inert Gas) Steel Specimen.
- Performed metallography tests on welded metal specimen.
- Studied the results of the metallography and tensile tests.

Applied Mechanics Lab, IIT Kanpur
Intern under the Guidance of Dr Ishan Sharma, Applied Mechanics Lab, IIT Kanpur | May-June 2018
- Designed Apparatus to Study the Flow of Grains around rotating and gravitating body.
- Analysed Granular flow around obstacles using Discrete Element Method Software LIGGGHTS.

Bajaj Auto Ltd. Chakan
Intern | Dec 2017
- Project: Development of online gauging system in Cam Shaft and Crank Shaft Assembly.

Institute Technical Summer Project-IIT Bombay
Summer Project | June-July 2017
- Designed and built a two-digit robotic arm with 360-degree swivel.
- Drafted and programmed a multi-functional and multi-modal Bluetooth-enabled app interface to control the arm.

Extracurriculars & Positions Of Responsibilities

Teaching Assistant for the Course CE 102:	Engineering Mechanics, Spring Semester 2018-19, IIT Goa
Cult Rang, Creative Solutions Team In-Charge:	IIT Goa Cultural Festival Organising Team [Dec 2018-Present]
Co-Founder, Design and Layout Executive:	IIT Goa Institute Editorial Board: Gurukul Varta [Aug 17- Jan 2019]
Branch Representative:	IIT Goa B. Tech Mechanical Engineering, Academic Year: 2017-18
Teaching Assistant for the Course CS 101:	Computer Programming, Autumn Semester 2017, IIT Goa

Skills

Computer Skills:C, C++, AutoCAD, Solidworks, Autodesk Inventor, Discrete Element Method using LIGGGHTS and LAMMPS, MATLAB, Simulink, Scilab, Gnuplot, Ovito, Adobe InDesign, Adobe Illustrator, Inkscape, MS Word, MS Excel
Manufacturing Processes:CNC, Welding, Lathe Machine Operations, Drilling, Milling, Shaper Machine Operations