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Akhil Sinai Bhangui 

Actively seeking Full-time opportunities | MS in Mechanical Engineering | Robotics | Mechatronics | Design | Manufacturing | Controls and Dynamics

 University at Buffalo


Buffalo, New York, United States · [Contact info](#)

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Mechanical Engineer, Manufacturing Engineer, Mechanical Design Engineer,...
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About

As a Mechanical Engineer, my interests primarily lie in Industrial Robotics and Automation, Medical and Rehabilitation Robotics, Control Systems, Design, and Manufacturing.

[...see more](#)

Featured

Document

- Reduced sensor error under 5% by leveraging NI-myRIO-1000 and NI LabVIEW.
 - Assembled the prototype for excitation with motor, connected sensors with computer and conducted real-time testing, achieved cable tension at 13N providing a sine input from the Controller.
 - Generated input gait pattern using Force Sensing Resistors (pressure pads) and NI-myRIO-1000 to deliver motion in the excitation and control the user output gait pattern.
- Design Engineer, 5D Engineering Services, Goa, India, October 2020 – July 2021**
- Updated Factory Inspection and Hazardous Area Classification layouts after conducting field surveys of various chemical plant areas as per client requirements in AutoCAD, enhancing safety standards of plant.
 - Created and revised Piping & Instrumentation diagrams for chemical process lines as per client requirements in AutoCAD, cutting down modification time for pipelines by 15%.
 - Developed structural layouts for installation of industrial equipment such as 1KL capacity process reactors, chemical storage tanks ranging from 100L to 2KL, heat exchangers and motor pumps in AutoCAD.
 - Proposed and revised Warehouse Storage layout as per client requirements, resulting in an increase in overall storage area by 10%.

Akhil Sinai Bhangui Resu



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Mechanical Engineering Trainee, Zuari Engineering Services, Goa, India · September 2019 – October 2020

- Designed 200L capacity Hydrophore Pressure Tank, 1KL capacity Ammonia storage tank and Weathertight (all-weather) Hatch Doors as per BIS standards and client requirements for Naval ships in AutoCAD and SolidWorks.
- Managed a team of seven workers for on-site installation of customized retractable Bulwark shields on decks of four Indian Naval ships for Goa Shipyard Limited and achieved completion of project within 80% of planned time.
- Supervised a team of five workers in Non-Destructive testing to detect welding and surface defects in fabricated Pressure tanks and managed rehabilitation of detected parts to reduce additional defect occurrence.
- Generated Bill of Materials for manufactured products to complete open Tender documents, helping in securing two new clients.

Graduate Engineering Apprentice, Goa Shipyard Limited, Goa, India · January 2018 – January 2019

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Congrats Abhishek



13 comments

Akhil Sinai Bhangu commented on a post · 1mo · 

Congrats Anthony



11 comments

Akhil Sinai Bhangu commented on a post · 1mo · 

Congrats ADARSH



3 comments

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Experience



Graduate Research Assistant at Assistive and WEArable Robotics (AWEAR) Lab

University at Buffalo · Full-time

Jan 2022 - Dec 2022 · 1 yr

Buffalo, New York, United States · On-site

Project: Controller design for Robotic exoskeleton for gait rehabilitation.

[...see more](#)

Skills: Mechanical Assemblies · Creo · Solid Modeling · Design Engineering · 3D Computer Aided Design (3D CAD) · 3D Modeling · 3D Printing [...see more](#)

Design Engineer

5D Engineering Services · Full-time

Oct 2020 - Jul 2021 · 10 mos

Goa, India

• Updated Factory Inspection and Hazardous Area Classification layouts after conducting field surveys of various chemical plant areas as per cl [...see more](#)

Skills: Manufacturing Processes · Design Engineering · Geometric Dimensioning & Tolerancing · Design · Piping and Instrumentatic [...see more](#)

Mechanical Engineering Trainee

Zuari Engineering Services - India · Full-time

Sep 2019 - Oct 2020 · 1 yr 2 mos

Goa, India

• Designed 200L capacity Hydrophore Pressure Tank, 1KL capacity Ammonia storage tank and Weathertight (all-weather) Hatch Doors as per [...see more](#)

Skills: Mechanical Assemblies · Manufacturing Processes · Solid Modeling · Design Engineering · 3D Computer Aided Design (3D CAD) · Milli [...see more](#)

Mechanical Engineering Apprentice

Goa Shipyard Limited · Apprenticeship

Jan 2018 - Jan 2019 · 1 yr 1 mo

Goa, India

• Supervised a team of fifteen workers for installation of out-fitting equipment such as engine, transmission system, gauges, and oth [...see more](#)

Skills: Manufacturing Processes · Design Engineering · Welding · Welding Inspection · Nondestructive Testing (NDT) · Piping · Manufacturing ·



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Education



University at Buffalo

Master of Science, Mechanical Engineering

Aug 2021 - Feb 2023

Grade: CGPA: 3.889



Goa Engineering College - Government of Goa

Bachelor of Engineering, Mechanical Engineering

2013 - 2017

Licenses & certifications



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Biomedical Research Investigators

CITI Program

Issued Jan 2022 · Expires Jan 2025

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Skills



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Mechanical Assemblies



2 experiences across University at Buffalo and 1 other company



2 educational experiences at University at Buffalo and 1 other school

Physics of Robots

[Show all 5 details](#)

Manufacturing Processes

3 experiences across 5D Engineering Services and 2 other companies



Govt. of Goa College of Engineering, Goa, Farmagudi, Ponda



Design and Development of Paper Recycling Machine

Creo



Graduate Research Assistant at Assistive and WEARable Robotics (AWEAR) Lab at University at Buffalo



University at Buffalo

Physics of Robots

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Courses



Biomechanics of the Musculoskeletal System

MAE-520



Associated with University at Buffalo



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Digital Control Systems

MAE-544

 Associated with University at Buffalo**Intelligent CAD Interfaces**

MAE-527

 Associated with University at Buffalo[Show all 9 courses →](#)**Projects****Design of controller for robotic exoskeleton for gait rehabilitation**


Aug 2022 - Dec 2022

 Associated with University at Buffalo

- Designed CAD model of 3-DOF structural mechanism for supporting motor actuation of exoskeleton in Autodesk Inventor, to allow adjusting the motor position

Design and Development of Paper Recycling Machine

Aug 2016 - Jul 2017

 Associated with Govt. of Goa College of Engineering, Goa, Farmagudi, Ponda

- Designed and Fabricated a machine capable of recycling waste paper into the recycled paper to reduce the wastage of paper products by providing an economical

Languages**English**

Full professional proficiency

Hindi

Native or bilingual proficiency

Konkani

Native or bilingual proficiency

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Master's student at University at Buffalo, State University of New York

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Lakshay Sharma

Certified Lean Six Sigma Black Belt | Efficiency Enthusiast | Certified Kaizen
Leader | Industrial Engineering Graduate Student at UB | Former CI Leader...

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Sai Vineeth Arumalla

Actively seeking summer'23 internships | Graduate Student at University at
Buffalo | Master's in Computer Science

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Akhil, learn what hiring managers look for in answers to top interview questions



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Tell me about a time you failed or made a mistake.

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