## JAYSTON ARLEN MENEZES

Email: jaystonmenezes@gmail.com; Mobile No: (857)-308-7622; Website: https://jayston-menezes.github.io/Portfolio/

#### **EDUCATION**

# **Northeastern University**

Boston, MA

Master of Science in Mechanical Engineering, Concentration: Mechatronics Relevant Coursework: Control Systems, Robot Mechanics & Control

Expected Dec. 2023

### Fr. Conceicao Rodrigues Institute of Technology

Mumbai, India

Bachelor of Science in Mechanical Engineering

June 2021

### **SKILLS**

- CAD Packages: AutoCAD, Autodesk Inventor, Autodesk Fusion 360.
- Programming Skills: C, MATLAB, GNU Octave, Arduino, Python, HTML, CSS, JavaScript, XML, MySQL.
- Simulation Software: ANSYS (Mechanical APDL and Workbench), SolidWorks.
- Documentation Tools: MS Word, MS Excel, MS PowerPoint, MS OneNote.

#### **EXPERIENCE**

## **Northeastern University**

Boston, MA

Graduate Researcher

May 2022 - Present

• Research about developing a Virtual Neuromuscular Controller for commanding torque for assistive walking using exoboots and Python.

# Larsen & Toubro Hydrocarbon Engineering

Mumbai, India

Mechanical Engineering Intern

July 2021 - Sept 2021

- Analyzed functional details of EPCI (Engineering, Procurement, Construction and Installation) of offshore sites in the Oil & Gas industry.
- Demonstrated a case study on the working of Sump Caisson and recent advancements for improved design.

#### **Bharat Petroleum Corporation Limited**

Mumbai, India

Mechanical Engineering Intern

June 2019 - July 2019

- Explored different types of pumps used in an oil and gas refinery such as Submersible Pumps, Screw Pumps and Centrifugal Pumps.
- Completed a technical study and gained hands-on experience on maintenance operations of Submersible Sump Pumps at the refinery's Central Engineering Workshop.

### **PROJECTS**

## Simulation of Sequencing for Stochastic Scheduling in Job Shop Final Project

**July 2020 - June 2021** 

- Developed 4 scheduling simulation environments to operate under different natures of scheduling using Python.
- Modified simulation environment to suit the requirements of R. D. Engineering Co., a pipe fittings, flanges, and sockets manufacturing company, providing 100% accuracy and results in seconds.

## **Application Software for Design of Hoisting Mechanism**

Jan 2021 - May 2021

- Implemented software for design calculations and stress analysis of hoisting mechanism system.
- Optimized software to reduce calculation time by 1 hour, ensuring accuracy and specification of standard components.

#### **ACTIVITIES**

## Indian Society of Heating, Refrigerating and Air Conditioning Engineering

Mumbai, India

Institute Chapter President

Sept 2019 - March 2020

- Organized Technical Talk for Students by industrialist professionals providing real-world experience.
- Assisted in Organizing Flagship Event for 200+ college students across 12 colleges.

#### **Trinity College London**

Mumbai, India

Certified Keyboardist (Theory & Practical)

November 2013