

SAVIOANTHONY LOBO

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EDUCATION

M.Sc. MECHANICAL ENGINEERING WITH MANAGEMENT

University of Liverpool

Liverpool, UK

Jan 2023

Grade: 2:1 (Post Graduate Merit)

Relevant Coursework: CAD, FEA, Fluid Mechanics, Nuclear Technologies, Advanced Materials Design.

B.E. MECHANICAL ENGINEERING

Visvesvaraya Technological University

Belagavi, IN

Aug 2021

Cumulative GPA: 7.27/10.

Notable Coursework: Thermodynamics, Mechanics of Materials, Material Science, Kinematics & Dynamics of Machinery, Turbo Machinery, Design of Machine Elements, Theory of Elasticity, Heat Transfer, Automobile Engineering, Fluid Power Systems, Operations Research, Experimental Stress Analysis, Tribology.

WORK EXPERIENCE

FINITE ELEMENT ANALYSIS INTERN

Mars Exploration Pvt. Ltd.

Noida, IN

Nov 2023 – Jan 2024

- Actively engaged in a dynamic environment, focusing on completing assignments and tasks to gain hands-on experience.
- Worked on a project encompassing structural integrity and modeling of the Control Arm used in automobiles and implemented optimization strategies resulting in approximately **5% cost savings**.

MANUFACTURING INTERN

Big Casting Pvt. Ltd.

Belagavi, IN

Mar 2021 – Apr 2021

- Contributed to diverse production processes, including material testing, design analysis collaboration, and quality control inspections, ensuring product compliance at Big Castings Pvt. Ltd.
- Developed technical skills operating casting machinery and equipment, actively participating in process improvement initiatives, and **enhanced efficiency by approx. 12%, reduced waste by approx. 8%, and prioritize safety protocols**.

CNC OPERATIONS AND PROGRAMMING

VTU National Academy For Skill Development

Dandeli, IN

Oct 2020 – Nov 2020

- Demonstrated proficiency in operating industrial CNC machines and executing diverse operations, including **programming machines** to meet design specifications.
- Acquired a strong understanding of precision-based industrial **measuring techniques** and showcased competence in utilizing CAMS software for product design.

AUTOMOTIVE INDUSTRY SIMULATION INTERNSHIP PROGRAM

Expertshub

Chennai, IN

Aug 2020 – Sept 2020

- Developed a strong understanding of the automotive industry, particularly about EVs with In-depth knowledge of car design and development.
- Led a project creating a comprehensive report on affordable (**under ₹100,000 ≈ £1000**) Electric 2-wheelers for urban areas in India.

POWERTRAIN MODELLING AND SIMULATION INTERNSHIP PROGRAM

Decibels Lab

Bengaluru, IN

May 2020 – Jun 2020

- Conducted comprehensive analysis of **3 drive cycles (FTP-75, MNEDC, WLTP)** using SciLab software, evaluating factors such as **aerodynamic force, motor power, speed, torque, wheel speed, and acceleration**.
- Applied analysis techniques to assess the powertrain performance of **3 EVs i.e., ATHER 450, Nissan LEAF, and a Formula Electric Race Car**, developing expertise in EV powertrain dynamics and proficient use of SciLab software for data analysis.

UNIVERSITY PROJECTS

REVERSE ENGINEERING PROJECT: PORTABLE BLENDER (MSc-CAD)

Jan 2023

- Reverse-engineered a portable blender using PTC Creo Parametric, highlighting technical proficiency in CAD software and attention to detail in recreating the product's design and functionality.

MODELLING A COMPOSITE BEAM (MSc-FEA)

Jan 2023

- Analyzed the mechanical behavior of a composite beam through modeling in 2D and 3D, comparing results from static, buckle, and modal analyses to assess deformation, eigenvalues, and frequencies and gain valuable insights.

VALIDATION OF ENGINEERING COMPONENTS. (MSc-Project)

Aug 2022

- Standardized and developed a validation procedure for engineering components, by integrating physical measurements and computational predictions, and utilization of optical measurement devices.
- Conducted comprehensive evaluations, including advanced decomposition analysis, to assess the impact of interpolation and spatial data on model validity, and validated the model's resemblance to the experimental setup using the Linear Correlation Comparison method.

AUTOMATIC WEEDER FOR NEW CROPS (BE-Project)

Jun 2020

- Collaborated on enhancing an automated de-weeding machine for agriculture, implementing improvements to optimize weed removal efficiency and precision.

ACTIVITIES

BARTENDER

Liverpool, UK

Arc Hospitality Recruitment Solutions Ltd.

Mar 2022 – Present

- Successfully balanced part-time role alongside my studies, delivering exceptional customer service during high-profile events such as the Grand National, May Festival, and Liverpool Football Club match days.
- Demonstrated efficiency in managing busy bars, accommodating crowds of **100+ guests** per event, while consistently providing top-notch service and ensuring exceptional customer satisfaction.

BETTING OPERATOR

Aintree/Cheltenham, UK

The tote

Mar 2023 – Present

- Successfully operated as a Betting Operator at esteemed events, such as Cheltenham and the Grand National, effectively managing **high customer turnout** and delivering exceptional service in the fast-paced and exhilarating atmosphere of horse racing.

TECHNICAL SECRETARY

Belagavi, IN

Association Of Royal Mechanical Engineering Students (ARMES)

Aug 2020 – Aug 2021

- As the Technical Secretary for a student body, successfully coordinated and managed technical initiatives, promoting collaboration among members and ensuring the seamless execution of events throughout the year.
- Organized and facilitated **7 online workshops**, fostering engagement and knowledge sharing among students from the mechanical engineering department and **4 other engineering departments**, particularly during the challenging period of the COVID-19 lockdown.

NSS VOLUNTEER

Belagavi, IN

National Service Scheme (NSS)

July 2017 – Aug 2021

- Actively served as a dedicated member, passionately engaging in various volunteering activities and social welfare projects to contribute to the betterment of the community and create a positive impact.
- Played a crucial role in organizing awareness drives in rural areas around Belagavi, IN, educating residents about the importance of voting, hygiene, and cleanliness, and actively promoting the "**Swachh Bharat**" (Clean India) initiative.

ADDITIONAL

Technical Skills: SolidWorks, Creo, Abaqus; Proficient in MATLAB, MS Excel, MS Project Management, CorelDraw.

Languages: Fluent in English, and Hindi; Conversational Proficiency in Konkani, Kannada, and Marathi.

Seminars: Technical Seminar on "Solar Sail Systems Activated by Shape Memory Alloys".

Certifications & Training: Course in "Inspection and Quality Control in Manufacturing"(NPTEL) with a score of 95%;

Distinction Certificate: Best Model in Quadcopter Workshop.