# SAVIOANTHONY LOBO

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## PERSONAL PROFILE

A Mechanical Engineer with a solid foundation in CAD, FEA. I am passionate about using my technical and problem-solving skills to innovate solutions and sustainable energy initiatives. Currently seeking a graduate engineering role in a collaborative and forward-thinking organization.

## EDUCATION

**M.Sc. Mechanical Engineering with Management | University of Liverpool**

- **Jan 2022 - Jan 2023** | Grade: 2:1 (Postgraduate Merit)
- **Relevant Coursework:** CAD, FEA, Fluid Mechanics, Nuclear Technologies, Advanced Materials Design.

**B.E. Mechanical Engineering | Visvesvaraya Technological University**

- **Aug 2017 - Aug 2021** | GPA: 7.27/10
- **Notable Coursework:** Heat Transfer, Thermodynamics, Kinematics & Dynamics of Machinery.

## WORK EXPERIENCE

**Finite Element Analysis Intern | Mars Exploration Pvt. Ltd. | Nov 2023 – Jan 2024** (3 Months)

- Conducted structural integrity analysis using ANSYS, identifying failure points and improving durability in automotive components, showcasing strong problem-solving and analytical skills.
- Optimized design to reduce production costs by 5%, demonstrating a commitment to cost-efficiency and sustainable engineering solutions.

**Manufacturing Intern | Big Casting Pvt. Ltd. | Mar 2021 – Nov 2021** (9 Months)

- Enhanced production efficiency by 12% and reduced waste by 8% through Kaizen-driven process improvements, which aligned with the company's value of sustainability.
- Collaborated with cross-functional teams to streamline workflows, optimize delivery timelines and ensure cost-effective manufacturing.

**Powertrain Modeling & Simulation Intern | Decibels Lab Pvt. Ltd. | May – Jun 2020** (1 Month)

- Analyzed the mathematical powertrain performance using MATLAB for EVs like Nissan Leaf and Ather 450, giving insights into efficiency and energy optimization.
- Authored a technical report to support data-driven decisions for EV design improvements.

## UNIVERSITY PROJECTS

**Reverse Engineering (Portable Blender) | University of Liverpool**

- Disassembled and measured blender components to produce detailed engineering drawings in compliance with British Standards.
- Proposed design improvements for increased functionality, cost reduction, and enhanced manufacturability.

**Composite Beam Modeling | University of Liverpool**

- Conducted static, buckling, and modal analysis using ABAQUS to evaluate material properties and structural integrity.
- Recommended lightweight, durable beam designs to enhance longevity and sustainability.

**Validation of Engineering Components (Master's Project) | University of Liverpool**

- Streamlined design validation processes by integrating physical measurements with computational tools like Euclid and Theon.
- Reduced rework and material costs by establishing standardized validation procedures.

**Automatic Weeder for New Crops | Visvesvaraya Technological University**

- Designed an automated de-weeding machine tailored to Indian agricultural practices, reducing manual labor requirements.
- Created detailed engineering drawings to ensure scalability and production efficiency.

## TECHNICAL SKILLS

**Tools:** SolidWorks, Creo, ANSYS, ABAQUS, MATLAB, SciLab, MS Project.

**Skills:** Structural analysis, Design optimization, Project management, Problem-solving, Effective communication, and Leadership.

**Certifications:** Inspection and Quality Control in Manufacturing (NPTEL, Score: 95%).

## LEADERSHIP & ACTIVITIES

**Technical Secretary | Association of Royal Mechanical Engineering Students (ARMES)**

- **Aug 2020 – Aug 2021**
  - **Highlight:** Coordinated 7 online workshops for over 200 participants, fostering collaboration among engineering students during the COVID-19 lockdown.

**NSS Volunteer | National Service Scheme (NSS)**

- **July 2017 – Aug 2021**
  - Led social welfare projects and awareness campaigns, significantly contributing to the 'Swachh Bharat' initiative in rural India.