MUKESH GHIMIRE

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EDUCATION

The University of Mississippi
Bachelor's degree

📅 Aug 2016 – May 2021   📍 Oxford, MS

- Major: Mechanical Engineering
- Minors: Computer Science, Mathematics
- GPA: 3.98/4.0
- Related coursework:
  Thermo-Fluid Dynamics, Elements of Propulsion, Heat Transfer, Mechanical Engineering Design, Fluid Mechanics, Mechanics of Materials, Dynamic Systems Modeling and Simulation, Engineering Analysis, Mechatronics, Data Science, Introduction to Dynamics and Chaos

EXPERIENCE

Engineering Intern/Co-op
thyssenkrupp Elevator

📅 August 2019 – Present   📍 Middleton, TN

- Assisted in 'C2D' project with a goal of standardizing elevator production.
- Developed Standard Operation Procedures (SOPs) for production processes in Traction Control, Cabs, and Signals Assembly for Hydraulic and Traction elevators.
- Developed manufacturing prints from engineering prints for easier and efficient production.
- Wrote python scripts to automate the process of gathering critical dimensions from manufacturing job descriptions.

Summer Undergraduate Researcher
Department of Mechanical Engineering, Ole Miss

📅 June – August 2019   📍 Oxford, MS

- Reviewed journal articles on Vortex Tube, a device that takes compressed gas and separates into hot and cold streams, known as Ranque-Hilsch effect.
- Attempted to understand the most plausible reasons for the temperature separation effect.
- Established a groundwork for further research in the Department of Mechanical Engineering.

PROJECTS

Active Flow Control
- Attempt to minimize flow separation on airfoil using actuators on the surface that provide enough energy to the flow to maintain continuity.

ASME SDC: The Pick-and-Place Race
- Led a team of four to design and develop a remote controlled robot for the ASME Student Design Competition in 2019.

SKILLS

Languages:
Python, Java, C(Arduino), MATLAB, HTML/CSS.

Tools:
AUTOCAD, SolidWorks, Inventor, Mathematica, Simulink, Machine Learning, Data Science

Platforms:
Arduino, Raspberry Pi, Unix

ACTIVITIES

Camp Counselor
The University of Mississippi

📅 May - August 2019   📍 Oxford, MS

- Conducted several STEM related camps: Programming, Biology, Game Development to motivate young students to pursue career in STEM.

Volunteer
Nepalese Students' Association

📅 Jan 2017 - May 2019   📍 Oxford, MS

- Helped organize several cultural events of NEPSA with an aim to share the culture and traditions of Nepal with the community of Ole Miss and Oxford.

Member
Ole Miss Robotics Club

📅 Feb 2017 - May 2019   📍 Oxford, MS

- Organized workshops for students from different majors interested in robotics on Arduino. Assigned group projects in the beginning of every academic year which is demonstrated at the end of the year.

HONORS & AWARDS

Academic Excellence Award
📅 2016 - 2021

Phi Kappa Phi
📅 September 2019

Tau Beta Pi
📅 November 2019

Sally McDonnell Barksdale Honors College
Inducted as Honors Student
📅 August 2018