Wilbur Acharya

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EDUCATION

The University of New Orleans — New Orleans, LA
Bachelor of Science in Mechanical Engineering — Cumulative GPA: **3.96/ 4.0**
Minor in Software Engineering and Mathematics — August 2019 – May 2023

EXPERIENCE

Mechanical Engineering Intern — **June 2021 – Present**
Bayer U.S — *Luling, LA*

- Trained seven site operators in using Asset Performance Monitoring software for conducting operator rounds
- Coordinated with Electrical Engineers for installation of 105 AMS Emerson 6500 vibration monitoring system
- Identified Process Safety Materials analyzing Engineering Flow Diagrams for management of hazardous chemicals
- Migrated engineering drawings and spec sheets to Autodesk Vault and Smart Plant Instrumentation software

Research Intern — **Jan. 2020 – June 2021**
Energy Conversion and Conservation Center (ECCC) — *New Orleans, LA*

- Conducted study on superhydrophobic surfaces to achieve up to 10 times more heat transfer inside paper dryers
- Analyzed five different superhydrophobic coatings and their susceptibility to extreme temperature up to 105 °C
- Modeled experimental setup using SolidWorks for prototype design and laboratory experimentation

Network Technician — **Nov. 2019 – June 2021**
The University of New Orleans — *New Orleans, LA*

- Maintained, configured, and provided wired and wireless network support around the campus
- Swapped more than 1000 connections and about 50 switches to increase network efficiency by about 25%

PROJECTS

Paper Dryer Siphons — **Jan. 2020 – Aug. 2020**

- Designed an experimental prototype of paper dryer to study flashing phenomena and air-water flow inside siphons
- Optimized the experiment and achieved the objective of 50% reduced energy consumption using compressed air
- Acknowledged in the paper, **"Experimental Study of Void Fraction Effect on Flow Continuity In A Siphon"** published by the American Society of Thermal and Fluids Engineers

Robot Design — **Nov. 2019 – Feb. 2020**

- Worked with four team members to build a robot tasked to pick up items of litter and dump them in separate bins
- Designed feasible acrylic chassis of the robot for IEEE Region 5 robotics competition using CAD modeling
- Implemented Fused Deposition Modeling (FDM) to print the parts and assemble components like Raspberry Pi

Gravity Propelled Car — **Nov. 2019 – Dec. 2020**

- Designed a CAD model of 1/64 scaled assembly vehicle using SolidWorks
- 3-D printed lower chassis, upper body, and assembly components using Stereolithography (SLA) technique
- The vehicle traversed and completed four different HotWheels Car tracks including two loops and inclines

CAMPUS INVOLVEMENTS

Vice-Chair: *IEEE Student Section; IPC Student Section* — ***Aug. 2021 - Present***
Treasurer: *NACE-UNO Student Section* — ***Jan. 2020 - Present***
Member: *UNO Robotics Club; ASME; AADE; SPE; Tau Beta Pi*

TECHNICAL SKILLS

- **Software:** SolidWorks; Fusion 360; AutoCAD; Autodesk
- **Languages**: Java; Python; HTML; CSS; C++
- **Machines**: Band Saw; Bench Drill Press; Power Tools

AWARDS AND HONORS

- **Homer-Hitt Scholarship (Full-Ride)**
- **TOLMAS Scholars Research Grant**
- **Richard M. Dannenberg Scholarship**