

Anuththara Sewvandi Jayasekara Alujjage

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Education

Purdue University, West Lafayette, Indiana
Direct-Doctor of Philosophy in Mechanical Engineering

Fall 2021

Northern Arizona University (NAU), Flagstaff, Arizona
Bachelor of Science in Mechanical Engineering
CEIAS Dean's list

Graduated: Fall 2020
GPA 3.60/4.0

Spring 2018, Spring 2019-Spring 2020

Research Grants and Experience

Undergraduate Researcher at NAU

May 2019-November 2020

- Worked on modifying Electrochemical and Mechanical Properties of Structural Supercapacitors
- Modifying an experimentation method to conduct pull-out tests to observe mechanical properties between the electrolyte and different types of fiber with and without adhesives
- Conducting pull-out tests using the '8874 Instron testing machine'

Interdisciplinary Undergraduate research Grant (NAU)

July 2019-June 2020

- The First Place Award winner for the Department of Chemistry and Biochemistry for the poster presented at 2020 University Virtual Symposium, "*Exploring Structure-Function Relationships: The Impact of Polymer Electrolyte Ordering on Ionic Conductivity*"
- First recipients of the Urdea Research grant of \$5000 for interdisciplinary teams
- The Research focuses on Intermolecular ordering of polymer electrolytes in relation to conductivity
- Received training on Scanning Electron Microscope (SEM), Gamry (Electrochemical Impedance Spectroscopy), PARSTAT (Impedance analyzer) and Rheometer

Mechanical Engineering Undergraduate Research (NAU)

September 2018-December 2018

- Analyzed data using MSMA image analysis for the research "Quantitative Analysis of Magnetic Shaped Alloys"

Human Powered Vehicle Competition hosted by ASME (NAU)

June 2020- November 2020

- Designed, fabricated and tested a single rider two-wheel recumbent bicycle
- Led the Carbon-Fairing sub-team

Awards and Scholarships

Recipient of the Mechanical Engineering department's "EPIC" Award

November 2020

- This award was given in recognition of excellence in professional conduct and activities, and good academic performance in the Mechanical Engineering program at NAU

International Excellence Award

August 2017-August 2020

- Awarded to International transfer students with a GPA of 3.0 higher at NAU

Employment

Class Aid for a Smart Materials course at NAU (ME 575)

March 2021-April 2021

- Worked on Piezoelectric materials and Energy Harvesters

Grader: main responsibility was to grade home works assigned each week (NAU)

- For ME450 – Heat Transfer
- For ME240 – Material Science

August 2020-November 2020

January 2020-May 2020

Class Aid for Adaptive Materials and Systems at NAU (ME475)

November 2018- December 2018

- Researched materials that can be used by the professor/students in the materials lab

Skills

Software

- SolidWorks
- MATLAB
- Digimizer Image Analysis software
- Ansys Fluent
- LabView
- Micro-controller systems
- Instron Blue-hill application
- LEAP sensor application

Volunteer work and Societies

Member of the American Society of Mechanical Engineers	August 2020-ongoing
Member of the Honor Society “National Society of Leadership and Success”	September 2018- November 2020
Volunteered at the Homecoming Parade- NAU	October 2019
Volunteered at the Flagstaff Family Food Center-Flagstaff	May 2018-March 2019
Volunteered at the “Flagstaff Community Wellness and Healing Pow Wow”	May 2019
Represented Sri Lanka at the NAU International Week and the Parade of Nations	April 2018-April 2019
Volunteered at Louie’s Cupboard Food Donation Program-NAU	February 2019