Ellis Selznick

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Education

Purdue University Graduation Date: May, 2026
Intended Major: Computer Engineering Cumulative GPA: 4.0

Experience

Research Internship, Univ. of AZ Dept. of Computer Engineering, June 2023-August 2023

- Developed a Robot Operating System (ROS2) demo to exchange image data over a network
- Integrated Polarizers and machine learning cameras into a ROS2 based Graphical User Interface
- Created a specialized dependency installer to help mount ROS2 in a Windows System

SCAN Software Team, Purdue EPICS, August 2022-May 2023

- Established and tested RFID scanner system units to map Purdue biking patterns
- Received Hex data and transmitted results through SCAN's docker registry using Python and C

Fieldworks Canvasser, Fieldworks LLC, June 2022-July 2022

- Promoted ballot initiatives by initiating 100's of face-to-face conversations
- Exceeded petitioning standards

Designated Campus Colleague, Univ. of AZ Dept. of Geosciences, July 2021-October 2021

- Compiled a list of Gulf of Mexico core samples and classified foraminifera species
- Methodized and shipped deep sea samples achieving desired deadline
- Co-author of Woolsey Mound research presented at American Geophysical Union (AGU)

STAR Labs, September 2020-March 2021

- Conducted supervised research collecting and managing Bay of Bengal paleoclimatic datasets
- Completed Research paper submitted to Southern Arizona Research, Science, and Engineering Foundation (SARSEF) and Arizona Junior Sciences and Humanities Symposium (AZ JSHS)

Honors

- **SARSEF Awards (4)**, 2nd place Earth/Environmental Science, Future Leaders in Sustainability and Social Justice, Hydrological Society Award, Outstanding Achievement for Scientific Excellence in Atmospheric, Oceanic or Hydrologic Sciences, Name listed in December Bulletin of the American Meteorological Society, Regional (2021)
- **AZ JSHS Oral Presenter**, Statewide (2021)

Publications

- "New analyses reveal a high variability of methane release over the last 50 kys at Woolsey Mound (Gulf of Mexico)"**,** Gracie Babineaux, Davide Oppo, Neva Powers, Kaustubh Thirumalai, Ellis Selznick, Giuliana Panieri, Leonardo Macelloni; School of Geosciences University of Louisiana at Lafayette (In progress)

Skills

Programming: Python, C, ROS2, GitHub, MATLAB, HTML, CSS, JavaScript
Hardware/Modeling: Soldering proficiency, Blender Modeling