

AUSTIN L. VERA

19495 NW 164th Road | High Springs, FL 32643 | (954) 854-7312 | austinvera21@ufl.edu

EDUCATION

University of Florida

Mechanical Engineering Ph. D. Student

Expected 2023

- **Fellowship:** NDSEG (National Defense Science and Engineering Graduate Fellowship Program)
- **GPA:** 4.00/4.00

University of Florida

Bachelor of Science in Mechanical Engineering

December 2017

- **Honors:** *summa cum laude* (GPA: 3.92/4.00)
- **Thesis:** “Characterization Of A Probe Microphone For Testing in High Temperature Environments”

EXPERIENCE

Interdisciplinary Microsystems Group, University of Florida

Undergraduate Research Assistant

May 2016 – August 2018

Graduate Research Assistant

August 2018 – Present

- Project leader on the development of a flat-packaged sapphire optical dynamic pressure sensor for harsh environments.
- Familiarity with calibrating pressure sensors in an acoustic plane wave tube.
- Background knowledge of the lumped element modeling techniques used for pressure sensors.
- Super-user for a picosecond pulsed laser micromachining station.
- Moderate experience working in a Class 100-1000 cleanroom facility to process 4” wafers.
- Extensive interaction and presentation of research with professional engineers through bi-weekly telecons and semi-annual meetings.

Interdisciplinary Consulting Corporation, Gainesville, FL

Intern

April 2018 – August 2018

- Responsible for final production and assembly of acoustics hardware and electronics.

Adaptive Equipment, Gainesville, FL

Intern

May 2015 – August 2015

- Machined and assembled aluminum parts for various design projects.

INVOLVEMENT

Department of Mechanical and Aerospace Engineering, University of Florida

Peer Advisor

August 2017 – December 2018

- Guided and assisted younger students within the department on course schedule, involvement, and any other concerns they presented.

TOPSoccer, Gainesville, FL

Volunteer

September 2018 – present

- Volunteer for a 6-week-long seasonal outreach program designed to provide children with special needs the opportunity to play soccer with their peers.

Chi Phi Fraternity, University of Florida

Director of Philanthropy

November 2014 – November 2015

- Planned, organized, and lead a philanthropic singing competition, which raised \$4,117.33 for The Boys & Girls Club of Alachua County.

PUBLICATIONS

- H. Zhou, D. Mills, **A. Vera**, A. Garraud, W. Oates, and M. Sheplak. “A High-Temperature Optical Sapphire Pressure Sensor For Harsh Environments,” *AIAA SciTech 2019 Forum*, (AIAA 2019-2044).

SKILLS

- **Software:** MATLAB, SolidWorks
- **Hands-on:** Soldering, Drilling, Milling, Laser Micromachining