

EDUARDO JAVIER SANTOS GONZÁLEZ

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1503 Sunset Way
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EDUCATION

- BS** Electrical Engineering Fall 2016 – Spring 2020
3.64 GPA, **Cum Laude**
University of Florida
- AA** Associate of Arts Fall 2014 – Spring 2016
3.79 GPA, **Highest Honors**
Broward College

WORK & RESEARCH EXPERIENCE

- Student Researcher** at SoundPad Lab Spring 2018 – Spring 2020
Gainesville, Florida
Project Title: *Affective and Neural Response to Algorithmically Generated Modal Music*.
Research mentor: Dr. Kyla McMullen
This project explores the relationship between algorithmically generated music and our emotional response as seen through self-reported and neural data. Requires work in brain-computer interfacing, signal processing, and music.
- Engineer** at Southeast Signal Summer 2019
Gainesville, Florida
Duties include assembling, testing, and repairing FDA-approved EEG devices and aiding in the redesign and testing of an improved design.
- Engineer** at DSR Technologies Summer 2017 – Winter 2017
Gainesville, Florida
Duties include preliminary project cost estimation and CAD work for approved projects.
- Teaching Assistant** for Intro. To Signals and Systems Fall 2017
Gainesville, Florida
Duties include conducting lab help sessions for students and grading work.

PUBLICATIONS

E. J. S. González and K. McMullen, "The Design of an Algorithmic Modal Music Platform for Eliciting and Detecting Emotion," *2020 8th International Winter Conference on Brain-Computer Interface (BCI)*, Gangwon, Korea (South), 2020, pp. 1-3, doi: 10.1109/BCI48061.2020.9061664.

INVITED TALKS

"The Design of an Algorithmic Modal Music Platform for Eliciting and Detecting Emotion"
8th IEEE International Winter Conference on Brain-Computer Interface (IEEE BCI 2020). Seoul, Korea.

HONORS & AWARDS

Scholarship for 2019 University of Michigan's EMERGE program
Ann Arbor, Michigan

Scholarship for 2019 Underrepresented Minorities & Persons with Disabilities Grad Cohort Workshop
Kona, Hawaii

Scholarship for 2018 Association for Computing Machinery Richard Tapia Conference
Orlando, Florida

Recipient & Participant for 2018 Computing Research Association Distributed Research Experience
Gainesville, Florida
Project title: *Affective and Neural Response to Algorithmically Generated Modal Music*.
Research mentor: Dr. Kyla McMullen

Scholarship for Duke University Graduate Program and Fellowship Application Bootcamp
Durham, North Carolina

Presenter at 2018 National Science Foundation Science & Engineering Festival
Washington, D.C.

Recipient of Florida Academic Scholarship
Gainesville, Florida
Full tuition coverage for undergraduate degree at University of Florida.

INVOLVEMENT

Vice President of Recording at Audio Engineering Society Fall 2017 – Summer 2018
Gainesville, Florida
Duties include organizing and overseeing events, meetings, and audio recording projects. Recognized as an official international Audio Engineering Society chapter in 2018.

Member of Hybrid Rocket Propulsion Research Team Fall 2016 – Summer 2017
Gainesville, Florida
Student run team for small scale rockets. Duties include overall design of a hybrid propulsion system with a focus on material selection for propulsion.

SKILLS & RELEVANT COURSEWORK

Programming & Software: MATLAB, EEGLAB, Assembly, C, Python, AutoCAD, SolidWorks, Mastercam.

Miscellaneous: Self-taught multi-instrumentalist. Native fluency in Spanish and English; familiar with French and Italian.

Coursework: Neural Signals, Systems, and Technology, Foundations of Neural Engineering, Bioelectrical Systems, Intro. To Signals and Systems, Biomedical Equipment, Fourier Analysis, Foundations of Digital Signal Processing.