

Stasiu T. Chyczewski

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EDUCATION

Bachelor of Science in Electrical Engineering (4th year)

May 2020

- University of Florida, Gainesville FL
- Cumulative GPA: 3.97/4.0
- Relevant Courses: Microprocessor Applications, Digital Logic and Computer Systems, Electromagnetic Fields and Applications 1, Electronic Circuits 1, Real Time Digital Signal Processing
- Currently Enrolled: IPPD 1, Radio Frequency Electronics (Graduate Section), Electromagnetic Fields and Applications (Graduate Section)

RESEARCH

Research Assistant, Interdisciplinary Microsystems Group (IMG) at University of Florida June 2017-Now

Project: Miniaturization of Resonant Wireless Power Transfer System Components **Funding:** U.S. Army

Advisors: Dr. David Arnold, Dr. YK Yoon

- Fabricated small receiving antennas for use with a commercially available wireless power transfer transmitter and harvested power with them
- Presented poster at Spring and Fall 2017 Multifunctional Integrated Systems and Technology (MIST) meetings

Project: Magnetic Miniaturized and Monolithically Integrated Components (M3IC)

Funding: DARPA

Advisors: Dr. David Arnold, Dr. Camilo Velez Cuervo

- Fabricated and characterized magnetic sample to test new material recipes

Project: ELF Wireless Power Transfer

Advisors: Dr. David Arnold, Dr. Nicolas Garraud, Dr. Alexandra Garraud

- Constructed demo of the technology for 2018 PowerMEMS conference
- Currently developing new harvesting electronics

PUBLICATIONS

- S. Chyczewski, S. Hwangbo, Y.K. Yoon, and D. P. Arnold, "Experimental Investigation of Ferrite Core Receivers for Inductive Wireless Power Transmission at 6.78 MHz", *Wireless Power Transfer*, Published
- C. Velez, S. Hwangbo, S. Chyczewski, J. Ewing, R. Bowrothu, C. S. Smith, Y. K. Yoon, D.P. Arnold, "Investigation of Ferromagnetic Resonance Shift in Screen-Printed Barium Ferrite/Samarium Cobalt Composites", *IEEE Transactions on Microwave Theory and Techniques*, Published

EMPLOYMENT

Texas Instruments, *Validation Engineering Intern*

May 2019-August 2019

- Worked on team responsible for validation of precision op-amps
- Summer project centered around improving the validation infrastructure for op-amps and other similar devices
 - Project heavily dealt with PCB design considerations for high precision measurements
 - Work was completed in Altium

RELEVANT UNIVERSITY INVOLVEMENT

UF IEEE

Spring 2018-Now

- Remote learning coordinator for Fall 2018/Spring 2019 academic year
 - Primarily responsible for creating educational videos on topics such as basic circuitry and software usage

Epsilon Sigma chapter of Eta Kappa Nu

Fall 2018

- Inducted in Fall of 2018
- Treasurer for 2019-2020 academic year
 - Primary responsibilities include bookkeeping, acquisition of new funding, and managing expenses

OTHER TECHNICAL SKILLS

Computer Programming (C/C++, MATLAB, Java)

- Proficient in UNIX based environment
- Certified Associate Java SE 7

Microcontroller Programming

- Have programmed in both C and assembly (AVR, C28x)
- Worked with ATxmega128A1U, PIC18LF4620, and a TMS320F28379D

Lab Equipment (Impedance Analyzer, Lab Power Supply, Oscilloscope, etc.)

Proficient in surface mount soldering

Familiar with Altium PCB CAD software

HONORS AND AWARDS

NSF REU Fellowship

Fall 2017

- National Sciences Foundation scholarship awarded for research performance during Summer 2017

UF Emerging Scholars Program

Spring 2017

- Scholarship for undergraduate researchers, entails completing at least two semesters of research and presenting at an undergraduate research symposium (completed April 2018)

Northrop Grumman NMSC Scholarship

Fall 2016

Academic Awards

- UF President's Honor Roll (Spring 2018/17, Fall 2017)
- UF Engineering College Dean's List (Spring 2018, Spring 2017)
- Anderson Scholar (Fall 2018)

Eagle Scout

Nov 2015