Current Address:

PMB 357682 2301 Vanderbilt Place Nashville, TN

Eric C. Yeats eric.c.yeats@vanderbilt.edu

Permanent Address:

5917 NW 54th Way 653

019

018 017 016

> 218 218 017

018 018

Nashville, TN 3	7235-7682	(352) 339 6234 https://github.com/yeatsec	Gainesville, FL 326
EDUCATION	Vanderbilt Univ Major in Comput Minor in Interdiso GPA: 3.55 / 4.0		May 20
EXPERIENCE	 Research Assist Worked cl Graduates Developed simulation Scripted N automate Scripted cl 	orida, ECE Dept. ant (PI: Dr. Erin Patrick) losely with a team of Research Profess s on a Brain-Computer Interface applic d a Compound Action Potential (CAP) that represented rat <i>in-vivo</i> observation NEURON simulation software with Pyth 1000s of concurrent simulations creation of publishable figures for CAP a; compiling into a paper	cation
	 Research Assist Developed and replic Predicted diameter v Calculated research to real neural Presented Conference Discussed 	ersity, BME Dept. ant (PI: Dr. E. Duco Jansen) d computational model of invertebrate ated temperature-induced inhibition inhibition profile of 1000s of varying within realistic Apysia fasciata nerve d measureable CAP of active population the CAP as an inhibition indicator statis al inhibition scenarios d poster of research at BMES 2018 ce in Atlanta, GA d possibilities of packaging COMSOL of mulation with scripted NEURON simula	on to stic for optical-
	 Research Intern Partook in physical in Presented technolog Unmanne Selected f 	tware Integrated Systems, Vanderbi (<i>PI: Dr. Janos Sztipanovits</i>) weekly research seminar on human-on theraction systems societal scale implications of emergin ies such as Autonomous Vehicles (AV d Aerial Vehicles, and Transactive Energinate for AV research internship at OFFIS in g, Germany with NSF Grant	Fall 20 cyber- ig s), ergy

Wrote NSF article detailing my research in Germany on AVs with a focus on societal-impact considerations

OFFIS – Institut für Informatik, Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany

Research Intern (PI: Mr. Thomas Peikenkamp)

- Parameterized traffic criticality metrics for use in traffic system modeling during 2 month internship
- Designed traffic scenarios with Traffic Sequence Charts (graphical traffic system modeling language)
- Edited academic article on human-machine-interface quantitative testing method for English grammar
- Conducted literature review on 20+ traffic criticality metric publications and compiled information
- Delivered presentation on criticality metric parameterization to CrEST group and OFFIS

LEADERSHIP Eagle Scout Rank

Building 2 Handicap-Friendly Picnic Tables for Camp Crystal Lake

- Designed tables from basic materials
- Managed budget of \$600
- Directed group of >20 adults and scouts during construction day
- RELEVANT
SKILLSFamiliar Programming Languages
C, C++, Java, HTML, Javascript, Python, MATLAB, ARM, AVR 8-Bit
Software Experience
NEURON, Matplotlib, NumPy, Matlab, Wolfram Mathematica, Excel
Operating Systems / Embedded Systems
Windows, Linux / Atmel μC's, BeagleBone
- **INTERESTS** Neuroprosthetics, Real-Time Computing, Embedded Systems, Brain-Computer Interfaces, Circuits, Signal Processing, German Language

CONTACTDr. Erin Patrick, University of Florida, ECE Dept.INFOerin.patrick@uf.ece.edu

Dr. E. Duco Jansen, Vanderbilt University, BME Dept. duco.jansen@vanderbilt.edu

Dr. Janos Sztipanovits, Vanderbilt University, EECE Dept. janos.sztipanovits@vanderbilt.edu Spring 2015