

Monica L. Eisinger

Computer Architecture Laboratory
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EDUCATION

Computer Engineering, BScpE / University of Central Florida

Tentative graduation: May 2020
Program GPA: 3.79

Biology, BSc / University of Central Florida

Graduated May 2011
Primary focus on plant biology

RESEARCH INTERESTS

Field-programmable gate array (FPGA), and other reconfigurable computer architectures
Emerging nanoscale electronics, specifically spintronic devices
Machine learning and other forms of artificial intelligence

CURRENT RESEARCH TOPIC

Low-Energy Deep Belief Networks Using Intrinsic Sigmoidal Spintronic-based Probabilistic Neurons

TECHNICAL SKILLS

Programming languages: Java, C, Assembly
Scripting Languages: MATLAB and Python
Hardware Description Languages: Verilog
Design and Verification Tools: HSPICE, Xilinx-ISE
Operating Systems: macOS, Windows, and Linux

INTERNSHIPS AND PREVIOUS EMPLOYMENT

Lead Bakery Design Staff – Publix Supermarkets, Inc., November '12 – November '17

Acquired skills: Assisted managing a team of six employees, maintained and ordered inventory per sales forecasting, and led the training of new employees.

Assistant Head Gardener – The Grand Hotel (Mackinac Island, MI), May '11 – November '11

Acquired skills: Assisted managing a team of nine employees, composed and led hour-long garden tours for guest education, and assisted with forecasting and ordering of future grounds inventory.

EPCOT Science Professional Plant Science Intern - The Walt Disney Company, June '09 – January '10

Acquired skills: Maintained a hydroponic greenhouse as part of The Land greenhouses within Epcot via plant propagation, composed and led hour-long greenhouse tours for guest education, and addressed environmental concerns by employing the use of rain barrels.

UCF Land and Natural Resources Intern – January '11 – May '11

Personal project: Assisted with education about the use of UCF's on-campus natural resources available to the public by documenting and creating educational resources, <http://www.green.ucf.edu/wp-content/uploads/2013/02/flowers-brochure.pdf>

HONORS

President's Honor Roll Certificate, Fall 2017
Dean's list, Spring 2018

SELECT COURSES COMPLETED

COP 3503C: Computer Science II
EEL 3123C: Networks and Systems
EEL 3801C: Computer Organization
COP 3330: Object Oriented Programming
EEE 3342C: Digital Systems

CURRENT ENROLLED COURSES

EEE 3307C: Electronics I
EEL 3926L: Junior Design
EEL 4742C: Embedded Systems
EEL 4768: Computer Architecture
EEL 4781: Computer Communication Networks

COMMUNITY INVOLEMENT

Institute of Electrical and Electronics Engineers, IEEE
Member, 2017 – present
Society of Women Engineers, SWE
Member, 2017 – present
Boys & Girls Clubs of America
Volunteer, 2013 – present

REFERENCE

Dr. Ronald DeMara, Computer Architecture Lab Director
(407) 823-5916
Ronald.DeMara@ucf.edu

AVAILABILITY

Interested in working on associated undergraduate research tasks 10-15 hours per week. Being a research assistant would be my only employment as I am not employed elsewhere.

CITZENSHIP

I am a U.S. citizen.