

NATESHA RAMDHANI

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ORLANDO, FL, 32828

EDUCATION

BS ELECTRICAL ENGINEERING, GRADUATING SPRING 2021

University of Central Florida, Orlando, FL | UCF GPA: 3.96/4.00

- Mathematics Minor
- Burnett Honors College Member
- Tau Beta Pi Engineering Honor Society Member
- Study Abroad Student – Spring 2020, University of Surrey, Guildford, UK

RELEVANT PROJECTS AND EXPERIENCE

INTERACTIVE WORKOUT TRAINING BAG, AUG 2020 - PRESENT

Senior Design Project, UCF

- Work with team to design concept for device integrating sensors, LED and LCD, power conversion, and wireless communication.
- Create schematics and test plans for device components including PCBs.
- Compose text and graphic design for report detailing design process.

UNDERGRADUATE RESEARCH ASSISTANT, JAN 2021 - PRESENT

Computer Architecture Laboratory of Dr. Ronald DeMara, UCF

- Run *MATLAB/SPICE* simulations for experiment on energy-efficient signal processing using spin-based architectures.
- Proofread technical papers prior to final submissions to journals.

UNDERGRADUATE LAB ASSISTANT, SEPT 2019 - JAN 2020

Dynamic Microsystems Laboratory of Dr. Reza Abdolvand, UCF

- Used technical equipment to measure/analyze resonator performance.
- Design circuits and PCBs using *Autodesk Eagle* and *TI Webench*.

STEM AMBASSADOR, AUG 2018 - PRESENT

Initiatives in STEM Department, UCF

- Represent UCF as ambassador in the Central Florida community.
- Present engineering concepts to students/non-technical audiences.
- Volunteer at events such as science fair judging, STEM summer camps.

THE IMPACT OF FULL ADDER DESIGNS ON ALU PERFORMANCE AND ENERGY EFFICIENCY, APR 2019

Computer Organization Capstone Project and Research Report, UCF

- Demonstrate proficiency in MIPS assembly language programming.
- Research new designs, methods, and technologies used in ALU innovation
- Work with team to compose report and present information on a panel.

EMPLOYMENT HISTORY

ASSISTANT INSTRUCTOR

JUN 2015 - PRESENT

Championship Martial Arts,
Eastwood, Orlando, FL

- Lead and assist instruction in classes for ages 3 to adult.
- Design graphics for events and promotions.
- Assist with office duties such as processing payments
- Act as a resource to offer information the programs offered by the dojo.

EDITOR AND GRAPHIC DESIGNER

JAN 2019 - JUN 2019

Dr. Issa Batarseh, UCF

- Edit textbook draft for introductory circuit class.
- Graphic design for textbook draft and class materials.
- Verify example solutions for textbook, class materials.

SKILLS

- **Programming:** C, Java, Python (including ROS), MIPS, Verilog.
- **Applications:** Autodesk Suite, Autodesk Eagle, Microsoft Office Suite, Microsoft Visio, Multisim, MATLAB.
- **Strong Mathematical Computation and Analysis.**
- **Critical Thinking.**
- **Team Leadership and Teamwork.**