JAMES MCNANEY

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EDUCATION

Rice University *Grad. May 2020*
Bachelor of Science in Electrical Engineering
Cumulative GPA: 3.734

Relevant Coursework:
VLSI Systems Design, Digital Integrated Circuits, Computer Systems Architecture, Signals Systems and Machine Learning, Random Signals, Physical Electronics, Digital Logic Design, Implementation of Digital Signals, Quantum Mechanics, Learning From Sensor Data

EXPERIENCE

KB Electronics (Coral Springs, FL) Summer 2018
Electrical Engineering Intern

- Researched and developed a pseudo-bootloader to implement firmware updates to motor drives through serial communications
- Performed part qualifications to substitute obsolete parts
- Presented to upper management and attended weekly roundtable meetings with engineering department

Doerr Institute: Professional Leadership Coach Training Fall 2018 - Spring 2019
CoachRICE Student

- Completed 60 hours of International Coach Federations approved coursework to become a formally trained peer leadership coach
- Developed tool kit and methodology to coach and develop others as leaders

PROJECTS

- Developed an original VLSI Microcontroller to simulate a cellular automata. Chip is currently being fabricated and will be tested in 2019
- Worked in a lab with circuit components and control systems. Combined circuit and control theory to design a Haptic Paddly Driver
- Constructed an Electromyogram (EMG), utilizing signal acquisition, amplification, and DSP
- Soldered (through hole and surface mount) projects and prototypes, including a TV-B-Gone
- Designed multiple PCB's in Eagle for undergraduate design lab
- Designed and assembled a computer with watercooling and overclocking capabilities
- Formatted and hosted a resume website: www.jamesmcnaney.info

ACCOLADES

Rice Men's Track and Field Honor Athlete 2018-2019
Pole Vault and Javelin

President's Honor Roll 2017
Top 30% GPA

Conference USA Commissioner's Academic Medal 2016-2018

Conference USA Commissioner's Honor Roll 2016-2018