MICHAEL JIMENEZ

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OBJECTIVE

I am actively seeking job opportunities to enhance and hone my skills in the field of engineering and science

EDUCATION

Bachelor of Science in Electrical Engineering Dec 2019

Dwight Look College of Engineering-Texas A&M University | College Station, TX

Relevant Coursework: VLSI Circuit Design, Magnetic Resonance Engineering, Embedded Systems with Medical Applications, Intro to Thin Film, Electronics I & II, and Neuro-Electrical Systems

SKILLS

C/C++, JAVA, Python, MATLAB, LabVIEW, Cadence, Verilog, Analog and Digital Circuits, Novice with microcontroller systems, GIS, PCB Design, VLSI, Signal Processing, Sensors with IOT

Small Scale Projects:

Create a small-scale MRI, Developed Hardware of a Computer Processor in Verilog, Audio Amplifier with a multi-stage of BJT Transistors, ECG Device with applied filters using an MSP 430, created ECG and Respirator Sensor to detect Myocardial Infarction

WORK EXPERIENCE

University of North Texas & City of Dallas Water Utilities | Dallas, TX |

Intern, May - Aug 2015

- Implemented Geographic Information System (GIS) skills to label Water Usage vs ZipCodes
- Acquired training in wastewater and sustainable agriculture
- Presented a final presentation to the officials of the City of Dallas and Dr. Ruthanne Thompson

Alamo Drafthouse Cinema | Dallas, TX |

Server, Jan 2020 – April 2020

- Fast learning and serving hundreds of customers consistently
- Running multiple theaters and helping the company run a smooth customer service
- Acquired the job for an emergency moment and stopped due to COVID

ACTIVITIES

Senior Design in Smart Clothing | Texas A&M University |

Team Leader, Jan 2019 – Dec 2019

- Manage and lead a group to design a smart clothing device that can predict myocardial infarction
- Develop an ECG device using a three-stage amplifier with filters from 0.5Hz to 150Hz
- Testing an ECG device with a low voltage supply of 3.3 volts and amplifying a small signal(1mV)

Aggie Scholar Mentor for Greater Texas Foundation | Texas A&M University |

*Group Mentor***,** Aug 2016 - May 2017

- Provided mentorship and guidance to First Generation Underclassmen in STEM

Aggie Challenge Research Project | Texas A&M University |

Undergraduate Researcher, Aug 2016 - Dec 2016

- Discussed core components of spaceCRAFT**,** a Virtual Reality 'Sandbox' Environment, in front of two Astronauts, Dr. Gregory Chamitoff and Richard Garriott, and NASA engineers
- Handled the software architecture of the virtual reality and collectively attempted to connect all the modules of SpaceCRAFT into a simulation
- Researched in depth in ROS, TRICK, Ignition Transport for technical development of the VR

Research Intensive Community for Undergraduates (RICU) | Texas A&M University |

Undergraduate Researcher, May 2016 - August *2016*

- Ten-Week research program focused on Big Data for Cardiac Diseases
- Implemented data analytic techniques, algorithms, and machine learning to Big Data
- Presented a final presentation to Dr. Satish Bukkapatnam and the undergraduate research poster symposium at Texas A&M University

Young Science Achievers Program Grant Award of $300.00 | Dallas, TX |

Researcher, Oct 2013 - April 2015

- Authored and received a grant for two consecutive years to harvest heat generated during composting that could be used to power a thermoelectric generator
- Received third place at UT Dallas symposium on the presentation of Waste-to-energy project

National Aeronautics and Space Administration (NASA) Aerospace Scholar| Houston, TX |

*Scholar***,** April 2014

- Designed tools for space with 3-D printers at Johnson Space Center
- Integrated a Simulated Mission to Mars and discussed key points to NASA Board of Directors