

IAN ZURUTUZA

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🌐 github.com/ianzur



Well rounded graduate student looking to continue learning new ways to manipulate data into meaning conclusions.

EXPERIENCE

Research Assistant

Human Movement Performance Lab

📅 May 2019 – Ongoing

📍 UNT Health Science Center

- Developed a pipeline to automatically align several separate csv datas temporally and spatially for further analysis
- Re-trained object detectors to locate and identify objects specific to our environment in recorded video
- Built and maintained project documentation to ease onboarding for new hires

Teaching Assistant

Biomedical Instrumentation & Data Acquisition

📅 Sept 2018 – August 2019

📍 University of North Texas

- Instructed a lab of 20 students three times each week
- Organized and managed lab inventory
- Graded weekly course assignments

PROJECTS

Speeding up video annotation

UNT Human Intelligence and Language Technologies Lab

📅 Now – Ongoing

- Leveraging the strength of pretrained image detection models to learn new specific objects quickly with minimal manual labeling.

Vigilant Baby Monitor

UNT Biomedical Engineering Department

📅 September 2017 – May 2018

- Prototyped a device to estimate heart rate in real time from a video stream
- Oversaw hardware selection, budget, & purchasing
- Communicated progress with advisor weekly

TECHNICAL SKILLS

Most Comfortable with: python opencv git bash MultiSim

SolidWorks Tensorflow Object Detection api

Previous Experience: Qt node.js + MongoDB HTML C++

Matlab Utiliboard

EDUCATION

MS in Biomedical Engineering

University of North Texas, GPA: 4.0

📅 Sept 2018 – May 2020

Masters Minor in Computer Science

BS in Biomedical Engineering

University of North Texas, GPA: 3.6

📅 Sept 2014 – May 2018

Minors in Math & Computer Science

Course Highlight:

- Computational methods
- Artificial intelligence
- Micro & nano fabrication techniques
- FDA best practices - biomedical devices

ACHIEVEMENTS



Best Senior Design Project

2018 – UNT Biomedical Engineering



Eagle Scout

Troop 690 – Rockwall, Texas

REFERENCES

Dr. Vijay Vaidyanathan

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✉ Biomedical Engineering
University of North Texas
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Dr. Rodney Nielsen

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