

# EDGAR CHAVEZ

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**Portfolio:** <https://edchav.github.io/>

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## EDUCATION

*Bachelor of Science in Computer Science Wichita State University*

Aug 2018 – May 2022

*Master of Computer Science University of Texas at Arlington*

Aug 2022 – Current

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## RESEARCH EXPERIENCE

### **Undergraduate Research Assistant**

**Wichita State University, School of Computing**

Jul 2021 – Aug 2022

- Executed surface detection experiments with the RealSense Depth Camera
- Transformed image coordinated to real world coordinates.
- Analyzed multiple surfaces to develop an algorithm for identifying surface contact.
- Employed various models for detecting fingertip positions.
- Co-authored a paper on the findings, which was published in a peer-reviewed journal.

### **Undergraduate Researcher**

**Wichita State University, Applied Quantum Computations Research Project**

Aug 2021 – Dec 2021

- Utilized both classical and quantum approaches to devise an image recognition classification model.
- Applied the Quantum Convolutional Neural Network (QCNN) technique for model training with the MNIST dataset.
- Evaluated the performance of classical vs. quantum approaches in enhancing model efficiency.

### **Undergraduate Research Assistant**

**Wichita State University Linux User Group (WuLUG)**

Feb 2020 – May 2020

- Implemented the YOLO (You Only Look Once) real-time object detection framework to predict the formation of large crowds.
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## WORK EXPERIENCE

**University of Texas at Arlington**

**Graduate Teaching Assistant**

Aug 2022 – May 2023

- Grade projects, assignments, exams and provide constructive feedback to enhance student learning.

**NIAR, Wichita, KS**

**Student Lab Technician at NIAR - Robotics and Automation Lab**

Feb 2020 – Apr 2021

- Developed programs for programmable logic controllers.
- Created and optimized Visual Basic macros for Excel to enhance lab efficiency.
- Operating and programming both collaborative and industrial mobile robots.

**Ennovar, Wichita, KS**

**Student Contractor at Textron Aviation Help Hangar**

July 2019 – Jan 2020

- Level 1 – 2 Customer Support Representative/Technical Support Engineer
  - Provide level 1 Windows 7, 10, and MS Office support on deskside, laptop and surface devices.
  - Provide level 1 mobile support and hardware support/troubleshooting.
  - Provide broad application support on SAP, Exchange, Outlook Mobile, and MS office products.
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## SKILLS

- **Programming Languages:** Proficient in Python, C++, C# and Visual Basic.
- **Frameworks:** Skilled in TensorFlow and PyTorch for developing machine learning models; experienced with Pandas and NumPy for data analysis.
- **Development Tools:** Experience in version control with Git and proficient in Linux environments
- **Research and Academic Writing:** Experience in conducting research and academic writing, with exposure to composing and editing.
- **Language:** Fluent in Spanish