James W. Easton

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EDUCATION

University of Texas - Austin, B.S. Aerospace Engineering | May 2021 | GPA: 3.58
- Elements of Computing Certificate | December 2021 |
Relevant Courses: Engineering Design Graphics, Engineering Communication, Low-speed Aerodynamics, Structural Dynamics, Compressible Flow, Applied Orbital Mechanics, Feedback Control Systems, Software Engineering and Design, Attitude Dynamics, Propulsion, Electromechanical Systems

WORK EXPERIENCE

Research Assistant, *Texas Advanced Computing Center*, Austin, Texas | May 2021 - Current
- Creating software to help with the deployment of the Tapis-API
- Working on remote machines to create templitzed, uniform code base for multi service API for quick and easy deployment with multiple instances for various users

Independent Contract Research, *Unorthodox Ventures*, Austin, Texas | Jan-Feb 2021
- Developing a model for passively heating cold inlet water with various tank geometries
- Validated theoretical model to be mostly accurate to experimental models.
- Built testing rig for prototyping water vessels and recording temperature to a cloud

Research Assistant Internship, *University of Houston-Victoria*, Victoria, Texas | Summer 2018
- Researched background subtraction and parallel processing through NVIDIA's CUDA API.
- Collaborated on a group project to build a virtual environment for drone control and operation.
- Co-author on two papers pending publishing by International Symposium on Visual Computing on background subtraction algorithms

Maintenance Contractor, *Liberty Group*, Austin, Texas | Summer 2019
Ranch Hand, *Gordon Equites*, Victoria, Texas | Summer 2016 & Winter Break 2018
Greeter/Cashier, *Victoria College - Museum of the Coastal Bend*, Victoria Texas | Summer 2015

PROJECTS (for more details, visit the website linked in the header)

Built prosthetic hand, Victoria West HS senior project,| May 2017
- Through E-NABLE
- 3D printed and assembled prosthetic arm for 8 year old girl

Kilonewton class rocket, Victoria West HS rocketry class,| Jan- May 2016
- Lead Rocksim modeler
- K class motor size rocket
- Max altitude of 1 mile

Reverse engineered wind-up car, Engineering design graphics team project | Nov-Dec 2017
- Disassembled assembly and drew models for each part
- Modeled each part and assembly in SolidWorks
- 3D printed and assembled

Wind Tunnel Experiment, Low-Speed Aerodynamics final group project | Nov- Dec 2019
- Designed wind tunnel experiment to determine effect of seams on baseball throw
- Designed and build testing apparatus to spin ball in wind tunnel
- Collected and analyzed data from experiment in Excel

SKILLS

Strong computer skills, including operating systems (Windows 7, Windows 10, Linux, macOS)
Competitive knowledge of MS Office products (Word, Excel, and Access)
Basic knowledge of Python, Java, C++, MatLab, Simulink, LabView, HTML, CSS, PHP, JavaScript, Kubernetes, Jupyter Notebook, Docker, Redis, Flask library, Github,Gitlab, Shell Scripting
Working knowledge of LaTex, SolidWorks, 3D printing