David Muniz Macias

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Personal Statement

Energetic, Ambitious engineering physics graduate with mature and responsible approach in developing innovation, learning new skills, and overcoming challenges.

QUALIFICATIONS/ SKILLS

- **Programming Languages**: *Proficient* in Python, Java, HTML, and CSS, *Working Knowledge* of JavaScript, C# and C++
- **Spoken Languages**: English, Spanish
- **Software**: Certified in Autodesk Inventor Professional, Proficient in Autodesk Fusion 360, and Unity

EXPERIENCE

HealthStream   **July 2019 - January 2020**

Software Developer Intern

- Created a new Sharepoint site using biomimicry to help better communication and documentation. Trained employees on SharePoint usage and providing support to end users.
- Installed, configured, and upgraded Sharepoint sights for Database, Configuration Management, Quality Assurance, and Business Analytics Team.

Project Cure   **May 2019 - August 2019**

Biomedical Engineer Intern

- Gained a firm grasp of debugging and repairing malfunctioning biomedical equipment.
- Used Autodesk Fusion 360 to 3D printing missing parts on patient monitors.
- Created a Json dataset of patient monitors with links to their manuals and a user friendly website using Javascript, HTML, and CSS to help easy access to common patient monitors manuals for volunteers.

PROJECTS

Belmont, Engineering, Architecture, and Robotics (B.E.A.R.)   **January 2020 - April 2021**

Belmont Tower Simon Game lead designer and engineer

- Developing a Server and Client connections between multiple NodeMcus using C++ to power on light bulbs and give the user the ability to play Simon Game on a building.

Augmented Climbing Game lead designer and engineer   **January 2018 - May 2020**

- Led a team of eight people to build an Augmented Reality Climbing Game to improve interest in climbing wall activities.
- Developed a BubblePop Game using C# and Unity. Used Windows Kinect Depth Sensor to detect players movement
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Smart Bird Feeder lead designer and engineer   **January 2019 - August 2019**

- Developed a smart bird feeder using OpenCV and Python running on a Raspberry Pi. Trained a Bird image recognition model to detect birds and send the images to a gmail account using SMPT.
- Designed BirdFeeder Model in Fusion 360.

EDUCATION

Belmont University – Nashville, TN   *Bachelor of Science in Engineering Physics*   **Graduated April 2021**

LEADERSHIP

Belmont, Engineering, Architecture, and Robotics (B.E.A.R.)   **October 2017 - April 2021**

Club Founder and President

- Leading and training club members to become critical thinkers, innovators, and problem solvers.
- Reaching out to local technology companies and inviting them to Belmont's campus for public speaking events.

ACTIVITIES

Belmont Enactus Social Entrepreneurship Club   **August 2019 - April 2020**

Website Developer Assistant for My Bag My Story Project

AWARDS

Outstanding New Student Organization of the Year   **2018 - 2019**

Belmont Engineering Architecture and Robotics