

# David Belleza

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## EDUCATION

### ● BS Multidisciplinary Engineering Technology (Mechatronics)

Texas A&M University | December 2019

### ● Minor: Embedded Systems Integration (GPA 3.0/4.0)

### ● Coursework

- Digital and Analog Electronics
- Electronic Instrumentation
- Embedded Systems
- Mechanical Design
- Statics and Dynamics
- Thermodynamics
- Control Systems
- Communication Networks
- Product Development

### ● Full Stack Web Development Bootcamp

The University of Texas at Austin | estimated Nov. 2020

## Projects

- Controlled a mobile robot using EMG signals
- Implemented computer vision and real-time mapping on a mobile robot
- Constructed a mixed reality VR studio with real-time camera tracking capabilities
- Designed and controlled a robotic arm with computer vision for agricultural harvesting

## EXPERIENCE

### ● LIVANOVA | MRI Intern

Houston, Texas | June 2019-August 2019

- Designed automated gantry system for MRI field map tests
- Designed and validated test equipment for MRI magnetic force tests
- Determined feasibility between different products
- Tested and verified battery life and charging of medical devices

### ● ID TECH | INSTRUCTOR

Rice University, Houston, Texas | May 2018-July 2018

- Summer camp instructor
- Taught ages 11-13 robotics and coding
- Taught ages 14-17 Java to create graphical games

## SKILLS

- Proficient at Solidworks, Creo Parametric, rapid prototyping, and additive manufacturing
- Proficient at C, Java, Matlab, LabVIEW, ARM, Multisim, Python, Verilog
- Proficient at microcontrollers
- Knowledge of HTML5, CSS, JavaScript
- Knowledge of Altium, PCB Design
- Knowledge of IoT devices and Bluetooth communication
- Proficient at Microsoft Office (Word, Excel, and PowerPoint)
- Proficient at Adobe Creative Suite (Photoshop, Illustrator, Premiere)

## ACTIVITIES

### ● Radio Show Host/DJ | KANM Student Radio

- Host and DJ a radio show for the campus radio

January 2019 - December 2019

### ● Member | Society of Mechatronics Engineering - TECH

- Projects and industry tours and speeches

November 2017 - December 2019

### ● Cultural Curator | Philippine Student Association

- Coordinated and Choreographed the organization's cultural dances for events and competitions
- Planned events
- General officer duties

May 2016 - May 2019

### ● Lockheed Martin Externship

- Participated in an extensive facility tour and talked to engineers about their position

January 2018

### ● Member | Engineers for a Sustainable World

- Collaborated in creating a sustainable campus

November 2016 - May 2017

### ● NASA Aerospace Scholar | NASA Community College Aerospace Scholars

- Participated in an onsite engineering workshop

June 2016 - October 2016