

# First Last name

(phone) email.edu - linkedin.com/in/User

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Biomedical Engineering graduate seeking a position as {position desired} that will leverage my experience in {programming, mathematical methods, and data processing (relevant skills)} to {innovate and improve machine learning algorithms for clinical decision support and workflow automation}.

## EDUCATION

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<b>Master of Science in Biomedical Engineering</b> University– City, State	<b>GPA: 3.00</b>	May 2021
<b>Bachelor of Science in Biomedical Engineering</b> University– City, State	<b>GPA: 3.00</b>	May 2020
<b>Associates of Science in Mathematics</b> University– City, State	<b>GPA 3.73</b>	May 2015

## EXPERIENCE

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- Project Coordinator** Biomedical Engineering Society – City, State Aug 2018 – May 2020
- Established Go Baby Go at the (University); authored white paper, presented to investors and campus societies for collaboration, fundraised over \$100, built community engagement by partnering with local makerspace and hospitals.
  - Modified cars for children with disabilities, focusing on safety by rewiring foot pedal to push button on steering wheel, including a toggle switch for parental control, fabricating 3-point harnesses and side and back support from PVC pipe resulting in more freedom and ability to interact with environment for the child.
- Research Assistant** University Brain Machine Systems Lab – City, State Sept 2017 – Aug 2019
- Assisted graduate students in segmentation and pre-processing of neural data and aligning it to video which is collected through a body-mounted camera to analyze how the brain reacts to art using machine learning in Matlab.
  - Assigned project head for new data set, trained interns, distributed workload to efficiently meet deadlines.

## RELEVANT PROJECTS

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- Brain fNIRS and Pressure Scanner** University Optical Bioimaging Lab – City, State Sept 2019 – May 2020
- Designed, prototyped, and built a device with a group of three individuals to work alongside a near infrared spectrometer to measure pressure exerted by a spectrometer. Analyzed how pressure affected the output signal.
- Blood Cell Position Detection** University– City, State Nov 2017
- Constructed Matlab code to identify and track red blood cells in a well plate, plotted displacement from previous frame.
- Mathematical Modeling of Neurons** Community College – City, State Jan 2017
- Developed a mathematical model in Matlab that described action potentials of neurons.
  - Presented at the Houston Robotics and AI day in Summer 2017 University.
- NASA Swarmathon** Community College – City, State Aug 2016 – Dec 2016
- Managed group of three individuals that built robots for NASA Swarmathon.
  - Reduced cost by replicating and optimizing robots using Solidworks and Creo to 3-D print parts, resulting in at least \$100 in savings per robot as well as stronger more durable parts.
- Human Position Detection** Community College – City, State Jan 2016 – Apr 2016
- Assembled a Linux based Raspberry Pi and Xbox Kinect camera to detect individual's body position and overlay a skeletal model aiding rescue services by reducing building search times.

## OTHER EXPERIENCE

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- Academic Impact Tutor** University– City, State Jan 2019 – April 2020
- Aided high-school students by providing direct instructional support; collaborated with faculty member on lesson plans.
- Tutor III** Community College – City, State Aug 2016 – May 2018
- Conducted individualized tutorial sessions for students with academic deficiencies; determined what skill areas require additional assistance, hosted review sessions biweekly with up to 20 students; received rookie of the year award in 2017.

## SKILLS/CERTIFICATIONS

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**Certifications:** CITI Responsible Conduct of Research, CITI Human Research  
**Programming:** Python, Java, JavaScript, C++, Matlab, R, Arduino, Scilab  
**Operating systems:** Windows, Linux (Ubuntu, Mint, Raspbian), Android  
**Software:** VirtualBox, MS Office, Anaconda, Spyder, Eclipse, AutoCAD, Jupyter