

Bridget Tan

Engineering student looking for full-time signal processing positions starting in 2021

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| EDUCATION | Carnegie Mellon University , Pittsburgh, PA Master of Science in Electrical and Computer Engineering GPA: 3.54/4.33 Bachelor of Science in Electrical and Computer Engineering Minor in Audio Engineering | Expected Dec 2020 May 2019 |
| SKILLS | Programming: Advanced - MATLAB, Python, C; Intermediate - C#, LaTeX, HTML, CSS, Assembly (ARM and x86) Software: Git, Bash, Unity3D, Solidworks, Audacity, Fritzing, Photoshop, Pro Tools, Microsoft Office, G Suite Hardware: Arduino, Raspberry Pi Spoken Languages: English (fluent), Mandarin Chinese (fluent), Spanish (intermediate) | |
| RELEVANT COURSES | Graduate Coursework: Advanced Digital Signal Processing*, Machine Learning for Signal Processing*, Gadgets, Sensors and Activity Recognition in HCI*, Computer Vision, Introduction to Machine Learning, Image and Video Processing, Introduction to Computer Music, Speech Recognition and Understanding Undergraduate Coursework: Electroacoustics, Fundamentals of Signal Processing, Mechatronic Design, Introduction to Embedded Systems, Physics of Musical Sound, Speech Processing | * In progress |
| WORK EXPERIENCE | AB Tech , Carnegie Mellon University <i>Student Technician</i> <ul style="list-style-type: none">Managed logistics and coordinated event plans with clients and vendors while staying on budgetExecuted sound, lighting, rigging, and production management for hundreds of successful events every year Open Learning Initiative , Carnegie Mellon University <i>Assistant Course Developer (Remote)</i> <ul style="list-style-type: none">Ensured quality and developed engaging course workbooks and content for online courses | Oct 2015 – Present Jun 2019 – Dec 2019, Mar 2020 – Present |
| RESEARCH EXPERIENCE | Infant Language and Learning Lab , Carnegie Mellon University <i>Research Assistant</i> <ul style="list-style-type: none">Developed a pipeline to analyze correlation in fNIRS data by utilizing the AnalyzIR Toolbox in MATLABDesigned and programmed, in a team of six, video games promoting cognitive engagement and physical activity to enhance cognitive control and school readiness skills in prekindergarten children | May 2017 – Sep 2018, Jun 2019 – Jul 2019 |
| PROJECTS | Theremin with Environmental Control , Independent Project <ul style="list-style-type: none">Prototyped a theremin instrument controlled by distance and temperature using an Arduino with a partner Nyquist Chiptune (8-Bit) Effect , Carnegie Mellon University <ul style="list-style-type: none">Created an effect library using the programming language Nyquist to convert audio to 8-bit-style sound Language ID with Universal Phone Recognizer , Carnegie Mellon University <ul style="list-style-type: none">Collaborated with two partners to design a language identification system with over 85% accuracy for English, German, and Mandarin Chinese speech using phones for identification Window Washing Robot , Carnegie Mellon University <ul style="list-style-type: none">Constructed, with a team of five, an autonomous robot that adheres to and cleans a window in 3 minutes | Summer 2020 Fall 2019 Fall 2019 Spring 2019 |
| LEADERSHIP | AB Tech , Carnegie Mellon University <i>Co-Head of Tech, Public Relations & Social Chair</i> <ul style="list-style-type: none">Directed over 30 students and restructured organization to improve workflow and transparencyLed recruitment and training sessions to teach members technical production skills | May 2019 – May 2020, May 2019 – Present |