

Bridget Tan

Electrical & Computer Engineering student interested in signal processing

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EDUCATION	Carnegie Mellon University , Pittsburgh, PA Master of Science in Electrical and Computer Engineering Bachelor of Science in Electrical and Computer Engineering Minor in Audio Engineering Cumulative GPA: 3.54/4.33	Expected in Dec 2020 May 2019
SKILLS	Programming: MATLAB, Python, C, C#, LaTeX, HTML, CSS, Assembly (ARM and x86) Software: Git, Bash, Unity3D, Solidworks, Audacity, Photoshop, Illustrator, Pro Tools, Microsoft Office, G Suite Hardware: Arduino, Raspberry Pi Spoken Languages: English, Mandarin Chinese, Spanish	
RELEVANT COURSES	Graduate Coursework: 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, Fundamentals of Control, Speech Processing	
WORK EXPERIENCE	AB Tech , Carnegie Mellon University <i>Student Technician</i> • Managed logistics and coordinated event plans with clients and vendors while staying on budget • Executed sound, lighting, rigging, and production and stage management for the university's community Open Learning Initiative , Carnegie Mellon University <i>Assistant Course Developer</i> • Developed and maintained engaging course workbooks 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 Programmer</i> • Developed a pipeline to analyze correlation in NIRS data by utilizing the AnalyzIR Toolbox in MATLAB • Worked on a team of six to design and program video games promoting cognitive engagement and physical activity, which enhanced cognitive control and school readiness skills in prekindergarten children • Adapted a computer application to assess attention in infants for investigating early markers of ADHD	May 2017 – Sep 2018, Summer 2019
PROJECTS	Toy Camera , Carnegie Mellon University • Fabricated a toy camera made of laser cut acrylic, 3D printed parts, and electronics with a team of 3 Nyquist Chiptune (8-Bit) Effect , Carnegie Mellon University • Created a chiptune effect library using Nyquist, a sound synthesis and composition language Language ID with Universal Phone Recognizer , Carnegie Mellon University • 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 • Constructed, with a team of five, an autonomous robot that adheres to and cleans a window in 3 minutes	Feb 2020 Fall 2019 Fall 2019 Spring 2019
LEADERSHIP	AB Tech , Carnegie Mellon University <i>Co-Head of Tech, Executive Board Member/Officer</i> • Directed an organization of over 30 students to provide professional-grade entertainment production • Conducted professionally with event organizers to plan and run hundreds of successful events every school year • Led recruitment and training sessions to teach members technical production skills	May 2019 – May 2020, May 2017 – Present