

# Bridget Tan

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

240-370-4493

bridgett@andrew.cmu.edu

bridgettan.me

github.com/bridget-tan

linkedin.com/in/bridget-tan

EDUCATION	<b>Carnegie Mellon University</b> , 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 Dec 2020 May 2019
SKILLS	<b>Programming:</b> MATLAB, Python, C, C#, LaTeX, HTML, CSS, Assembly (ARM and x86) <b>Software:</b> Git, Bash, Unity3D, Solidworks, Audacity, Photoshop, Illustrator, Pro Tools, Microsoft Office, G Suite <b>Hardware:</b> Arduino, Raspberry Pi <b>Spoken Languages:</b> 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	<b>AB Tech</b> , Carnegie Mellon University <i>Student Technician (Stagehand &amp; Production Manager)</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  <b>Open Learning Initiative</b> , Carnegie Mellon University <i>Assistant Course Developer</i> • Ensured quality and developed engaging course workbooks for online courses remotely	Oct 2015 – Present  Jun 2019 – Dec 2019, Mar 2020 – Present
RESEARCH EXPERIENCE	<b>Infant Language and Learning Lab</b> , 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	<b>Toy Camera</b> , Carnegie Mellon University • Fabricated a toy camera made of laser cut acrylic, 3D printed parts, and electronics with a team of 3  <b>Nyquist Chiptune (8-Bit) Effect</b> , Carnegie Mellon University • Created a chiptune effect library using Nyquist, a sound synthesis and composition language  <b>Language ID with Universal Phone Recognizer</b> , 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  <b>Window Washing Robot</b> , 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	<b>AB Tech</b> , Carnegie Mellon University <i>Co-Head of Tech, Executive Board Member/Officer</i> • Directed over 30 students to provide entertainment production for hundreds of successful events every year • Led recruitment and training sessions to teach members technical production skills	May 2019 – May 2020, May 2017 – Present