

Bridget Tan

Electrical & Computer Engineering student at Carnegie Mellon University

240-370-4493

bridgett@andrew.cmu.edu

www.linkedin.com/in/bridget-tan

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: 3.49/4.33	Expected in December 2020 May 2019
SKILLS	Programming: MATLAB, Python, C, C#, LaTeX, 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 COURSEWORK	Graduate Coursework: Computer Vision (In Progress), Introduction to Machine Learning (In Progress), 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	
WORK EXPERIENCE	AB Tech , Carnegie Mellon University <i>Student Technician</i> <ul style="list-style-type: none">Supervised personnel to provide technical support for events including a 2000-person tent and around campus for Carnegie Mellon University's 2019 OrientationManaged logistics and worked with clients to draft technical plans for their events while staying on budgetDevised production schedules and coordinated efforts between vendors and production crews to ensure reliable and timely project completionExecuted sound, lighting, rigging, and production and stage management for the university's community	October 2015 – Present
RESEARCH EXPERIENCE	Infant Language and Learning Lab , Carnegie Mellon University <i>Research Programmer</i> <ul style="list-style-type: none">Developed a pipeline to analyze correlation in NIRS data by utilizing the AnalyzIR Toolbox in MATLABDesigned and programmed video games, which promote cognitive engagement and physical activity to enhance cognitive control and school readiness skills in prekindergarten children, with a team of 6Adapted a computer application to assess attention in infants for investigating early markers of attentional dysfunction and potentially diagnosing ADHD in infancy	May 2017 – September 2018, Summer 2019
PROJECTS	Nyquist Chiptune Effect , Carnegie Mellon University <ul style="list-style-type: none">Created a chiptune effect using Nyquist, a sound synthesis and composition languageWrote a library for changing audio into chiptune and mixing the original and chiptune sounds Language ID with Universal Phone Recognizer , Carnegie Mellon University <ul style="list-style-type: none">Collaborated with a team of 3 to design a language identification system with over 85% accuracy for English, German, and Mandarin Chinese speech using phones for identificationImplemented system and baseline with Python and Google Colab Window Washing Robot , Carnegie Mellon University <ul style="list-style-type: none">Constructed with a team of 5 an autonomous robot that adheres to and cleans a window in 3 minutesBuilt and tested electronic and mechanical subsystems to complete project tasks	Fall 2019 Fall 2019 Spring 2019
LEADERSHIP	AB Tech , Carnegie Mellon University <i>Co-Head of Tech, Executive Board Member</i> <ul style="list-style-type: none">Directed an organization of over 30 students to provide professional-grade entertainment productionConducted professionally with event organizers to plan and run hundreds of successful events every school yearLed recruitment and training sessions to teach members technical production skills	May 2017 – Present