

MITALEE BHARADWAJ

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. Computer Engineering
Expected Graduation: May 2020

South Brunswick High School

Diploma with Honors: June 2016

RELEVANT COURSEWORK

ECE 110: Introduction to Electronics
ECE 120: Digital Logic Design
ECE 210: Analog Signal Processing
ECE 220: Systems Programming
CS 225: Data Structures
ECE 313: Probability Engineering Applications
ECE 342: Microelectronics
ECE 385: Digital Systems Lab
ECE 391: Operating Systems Design
ECE 462: Logic Synthesis
ECE 482: Digital IC Design
ECE 444: IC Device Theory & Fabrication

SKILLS

Programming Languages

C, C++, SystemVerilog, LC3
Assembly, x86 Assembly

Web Development

HTML, CSS, JavaScript

Other

Quartus, LTSpice, git, Arduino

PERSONAL PROJECT

</>Voice-controlled coffee machine

A basic coffee machine that integrates an ARM processor to brew coffee through voice commands or on a web application.

WORK EXPERIENCE

Bose • Embedded Software Engineering Intern

Framingham, MA

MAY 2019 – AUGUST 2019

Developed firmware for in-ear headphones development boards and charging case.

Debugged issues related to USB detection, USB enumeration, and charger IC configuration within the charging case firmware.

Provided system support for SQ&A, manufacturing, and hardware development teams.

Bose • Technical Summer Intern

Framingham, MA

MAY 2018 – DECEMBER 2018

Developed prototyping environment for low power embedded camera integration in Bose products.

Designed 3D audio spatialization VR experience in Unity to compare several audio SDKs.

Prototyped an AR headset with a specialized audio solution, and eye and hand tracking.

Sandia National Laboratories • Applied Research Intern

Applied Research Institute (ARI), Champaign, IL

JUN 2017 – FEB 2018

Built a web-based data visualization application to convert various data file formats including: JSON, Google Protocol Buffers, HDF5.

Utilized full stack development of python scripting and file processing, NodeJS server-side scripting, and front-end visualization through ReactJS, D3.js, and RESTful API call.

CAMPUS ACTIVITIES

ECE Student Advancement Committee (ECESAC)

FALL 2017 – PRESENT

President on the student board for the ECE department to plan events and represent the interest and concerns of the students.

Alpha Omega Epsilon

FALL 2017 – PRESENT

Member of professional and social sorority composed of female engineering and technical science students.