

GENE J. YU

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EDUCATION

Boston University College of Engineering

Bachelor of Science in Mechanical Engineering, Concentration in Mechanical Engineering

May 2020

Boston, MA

RELEVANT COURSEWORK

Product Design

Production Systems Analysis

Instrumentation

Product Quality

Supply Chain Engineering

Automation and Manufacturing

TECHNICAL SKILLS

Programs: AutoCAD, SolidWorks, CREO, MATLAB, MS Excel, LabView, Gibbs Cam

Machining: CNCs, mills, lathes, drill presses

Others: Adobe Photoshop, Adobe Premier, Conversational Korean, BOA Smart Camera Vision System, Production Systems, Supply Chain

PROJECTS

Senior Design Capstone Project: Functional Printing Station

Sep 2019 - Present

- Collaborated in a team of 2 to develop a functional printing station into upon the client's request
- Manage the operation of CREO and Solidworks in the team and design 2/3D prototype models
- Changed the structure of the printhead adapters to be sturdier
- Fixed previous team's designs of the electrical component stations, devising functional prototypes

Design and Implementation of an Optical Sensor

Sep 2019 - Dec 2019

- Utilized a mid-range distance DT50 sensor to measure the temporal and frequency responses of a mechanical 2nd- order oscillator
- Accurately analyzed system in free decay and steady state with MatLab and Excel
- Created a detail report and presented our findings to the class and professor

Jewelry Box Manufacturing Project

Jan 2019 - May 2019

- Manufactured a jewelry box operating a manufacturing cell involving scheduling, budgeting, and building
- Programmed UR5 robot's operations throughout the assembly line
- Planned the product's cost and schedule
- Milled the product using the Hass Mini Mill

Arduino Controller

Jan 2019 - May 2019

- Built a product that uses a sensing device that uses real-world input to interact with entities in a virtual environment
- Designed the controller causing that housed the Arduino and the accelerometer sensor using CREO

OTHER EXPERIENCES

Media Service Student Manager

Jan 2018 - Present

BU Law Academic Media Services

Boston, MA

- Administer all classrooms, courtroom technology, and the School of Law's AV equipment
- Coordinate events, such as video conferences, lecture recordings, and all other events while overseeing a team of 13

Teacher

Jul 2016 - Aug 2019

Promise Summer School

Flushing, NY

- Delivered lessons and presentations while maintaining detailed academic reports on 20 students
- Created adjustments to the teaching style and curricular structure to improve classroom engagement

LEADERSHIP EXPERIENCE

E-Board Member

Sep 2017 - Sep 2019

BU Soon Movement (Cru)

Boston, MA

- Oversaw logistics planning of events for 23 BU students during weekly meetings
- Devised fundraiser which supported over 70+ students in the Boston Community