Evelyn Putri

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Education

Duke University
Aug. 2017 – May 2021
B.S.E. Electrical & Computer Engineering
B.S.E. Biomedical Engineering
GPA: 3.88

Relevant Coursework

- Microelectronic Devices
- Signal Processing
- Data Structures & Algorithms
- Medical Device Design & Instrumentation
- Medical Imaging
- Computer Architecture

Skills

Product Design & Manufacturing
Rapid prototyping, Eagle, Fusion 360, Simulink, Microcontrollers, JMP

Software Development
Proficient:
Java, MATLAB, C#
Familiar:
SQL, C, HTML/CSS, Python

Interests

- Volleyball
- Running
- Baking
- Reading
- Crocheting

Work Experience

Medical Device Engineer Jun. 2020 to Aug. 2020
NeckTec, Duke University Department of Surgery Durham, NC
- Collaborated with Duke ergonomics coordinator and physicians to develop a medical device that monitors, notifies, and records neck posture of surgeons while performing operational procedures
- Designed circuit schematic, PCB (***Eagle***), and 3D-printed mechanical design (***Fusion 360***) of surgical device
- Assembled PCB, ***WiFi Particle Photon Microcontroller***, and other hardware components into a functional mid-fidelity prototype

Breast Diagnostics Circuit Designer Aug. 2019 to Present
Center for Global Women's Health Technologies Durham, NC
- Design and assemble circuit components for low-resource breast diagnostics imaging tool using ***Arduino***
- Develop ***Java GUI*** software to allow for convenient control of LED in fluorescence imaging procedure
- Conduct ***MATLAB*** simulations to determine optimal image collection set up for accurately estimating oxygen saturation levels in vasculature

Semiconductor Test Engineering Intern May 2019 to Aug. 2019
Cree | Wolfspeed Research Triangle Park, NC
- Built software application using ***C#*** to automate the electrical testing of RF devices
- Performed statistical analyses utilizing ***SQL*** queries and ***JMP*** software to qualify new electrical test system into processing line
- Coordinated professional development panel session with RTC and Cree's Women's Initiative

Duke ECE Teaching Assistant Jan. 2019 to Present
- Conduct weekly lab meetings utilizing electronic test equipment, ***MATLAB***, and ***Simulink*** for 90 students in Signals and Systems course
- Aid 40 students in Fundamentals of ECE course in digital and analog circuit analyses during weekly office hours

Extracurricular Activities

Project Tadpole Aug. 2018 to Present
- Modify toys tailored to the needs of children with motor impairments
- Design, solder, and diagnose malfunction of circuits in a team setting

Rewriting The Code (RTC) Hub Leader Apr. 2019 to Aug. 2019
- Accepted into selective fellowship program of 2000+ high-achieving college women in engineering and tech
- Organized professional and social events in collaboration with other hub leaders for 33 Raleigh/Durham interns