Tahirah Ali Alnasser

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OBJECTIVE

To obtain a biomedical engineering or related position that suits my skills and qualifications

EDUCATION

Purdue school of Engineering and Technology, IUPUI
Bachelor of Science in Biomedical Engineering, Instrumentation Depth.
Mathematics Minor.
GPA: 3.5/4.00
Graduation date: May 2021

COMPUTER SKILLS

- C++
- MATLAB Eagle
- Fusion 360
- Meshmixer
- Microsoft Office
- LabVIEW
- Pro Engineer Creo
- Eagle

AWARD and ACHIEVEMENTS

- A scholarship from the Higher Education Ministry of Saudi Arabia, 2015
- Dean list for exceptional academic performance, Fall 2016, Spring 2017, Fall 2017
- Nominated for SABIC Entrepreneurship Award, 2019

RELATIVE COURSEWORK

- Introduction to Biomechanics
- Quantitative Physiology
- Biomeasurements and Circuit Analysis
- Biosignals and System
- Biomedical Computing
- Feedback System Analysis and Design
- Introduction to Digital System
- Introduction to Applied Math and Modeling

EXPERIENCES

Indiana University-Purdue University-Indianapolis.   United States of America
Teaching Assistant for Biomeasurements Lab for Dr. John Schild.   January 2020-May 2020

- Coordinating and leading lab sessions while guiding and directing students learning of circuit theory, design, and implementation.
- Establishing rubrics, grading lab report submissions, grading homework submissions, and holding office hours.

PROJECTS

Adjustable Cast for Children with Cerebral Palsy

- design a 3D adjustable cast for the wrists of pediatric patients with cerebral palsy that can be utilized in place of fiberglass or plaster casts during the serial casting process.

Electromyography Signals

- design and use a differential operational amplifier circuit for recording surface electrical signals produced by skeletal muscles.

Drug Delivery

- design and analyze a liquid handling device that can be used for medical dosing applications.

Spectrophotometer Design

- design, build, and test a spectrophotometer within an applied area of biomedical engineering research.

LANGUAGE

Fluent in English and Arabic