

Abdullah AlAboosi

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Work Experience

Graduate Research Assistant

Department of Engineering Technology and Industrial Distribution, Texas A&M University, - College Station, TX

August 2021 to Present

Capstone, Electronic Systems Engineering, Texas A&M University - College Station, TX

August 2020 to May 2021

- The wearable device noninvasively monitors the user's condition.
- The wearable device can detect a tremor ranging from 4 -12 Hz.
- The accelerometer raw data is be conditioned and filtered to read frequency values.
- The Android application is capable of scanning and connecting to multiple peripherals.
- The application can save three emergency contacts and notify them the user is in danger and needs help at the specified location.
- The application can notify 911 that the user is in danger and needs medical attention at a specified location.
- The application can send signals to the central unit to initialize the alarm when the tremor is detected.
- The Users can shut off the system if they are conscious.

Undergraduate Research Assistant

Department of Engineering Technology and Industrial Distribution, Texas A&M University, - College Station, TX

August 2018 to May 2020

- Design and Implement Garage Ventilation System (Hardware and Software)
- Prepare Munnerlyn Energy Management Proposal
- Participate in Krissy robot championship by designing, implementing, and programming an autonomous robot.
- Collaborate with Chemical Engineering group to develop methodologies for prediction of solar radiations under sky conditions to establish solar irradiance database for long-term evaluation for the techno-economic performance of concentrated solar energy systems (Data Analyzer).
- Preliminary Evaluation of a Rooftop Grid-Connected Photovoltaic System Installation Under the Climatic Conditions of Texas (USA).

Graduate Teaching Assistant

Department of Engineering Technology and Industrial Distribution - Texas A&M

Education

Doctor of Philosophy in Interdisciplinary Engineering

Texas A&M University - College Station, TX

May 2025

Bachelor of Science in Electronics System Engineering

Texas A&M University - College Station, TX

May 2021

Associate Degree in General Engineering

Blinn College - Bryan, TX

May 2021

Skills

- Power Electronics
- Cybersecurity
- Virtual Private Network (VPN)
- System Testing
- Hardware
- Testing
- Information Technology
- Analog Circuit Design
- Cisco MDS SAN switches
- Analog Filters
- Electronic Instrumentation
- Electromagnetics and High-Frequency Systems
- and Medical Devices. Tools and Technologies: Embedded Systems
- Assembly Language
- Vivado
- Multisim
- Python
- Excel
- MATLAB
- Minitab
- C
- C++
- LabView
- Lean Six Sigma.

