

Abdulrahman Tabbaa

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Education

Touro College of Dental Medicine

Expected Graduation: May 2029

Doctor of Dental Surgery (DDS), GPA: 3.846

Relevant Coursework:

Georgia Institute of Technology

Master of Science in Electrical and Computer Engineering, GPA: 3.85

Graduated: December 2024

Concentrations: Telecommunications and DSP

Bachelor of Science in Electrical Engineering, GPA: 3.85

Graduated: December 2023

Minor in Computer Science (Artificial Intelligence)

Relevant Coursework: Machine Learning, Wireless Networks, Microelectronic Circuits, Electric Vehicles

Work Experience

Enercon Services Inc., Associate Electrical Engineer

Atlanta, GA

January 2025 – June 2025

- Provided electrical solutions to nuclear plant modifications, ensuring power and safety regulation compliance

Georgia Tech College of Computing, Teaching Assistant, Machine Learning Course

August 2023 – December 2024

- Created homework and notes for **1000+ students** to assess mastery of lecture material
- Assisted students for **3 hours** weekly to enhance understanding and interest in course material
- Helped develop automation tools on Gradescope to improve grading accuracy and speed

Texas Instruments, Intern, Applications Engineer Intern

Santa Clara, CA

June 2022 – August 2022

- Developed an application guide to help customers configure the SPI protocol on serializer/ deserializer devices
- Wrote and documented C code to implement a SPI controller/ peripheral pair on an ARM Cortex-M microcontroller, enabling simple repetition of experiments and further improvements

Skills

Programming: Python, Javascript, React Native, React, Java, NextJS, C/C++, MATLAB, VHDL, Verilog, Kotlin
Instrumentation: FPGA Board, microcontrollers, Raspberry Pi, Arduino, surface-mount soldering
Software: MongoDB, Expo, Google Cloud/ Run, Langchain, PyTorch, Tensorflow, Firebase, Docker, Git
Languages: Arabic (fluent), and Spanish (intermediate)

Certifications

Fundamentals of Engineering (FE) in ECE

June 2025

Projects

Commuter Partner

January 2025 - Present

IOS app which provides location services to other apps (messages, email)

- Generates ringtones when entering a marked destination, helping commuters sleep without missing a stop

Trainable AI Chatbot

January 2024 - August 2024

AI RAG chatbot with GPT-3.5-turbo capabilities hosted on a NextJS server

- Trained the model on issues faced by students to reduce FAQ generation time by over **300%**
- Programmed a customizable, user-friendly training feature to tailor the chatbot to the preferences of the user

Rubik's Cube Solver

November 2021 – May 2022

A contraption capable of physically solving a 3x3 Rubik's Cube

- Compiled over 6000 lines of code in C++ and established I2C communication between a microcontroller, an Arduino Uno, **7** servo motors, and **2** color sensors to solve the cube in an average of **70** moves using **CFOP**

Leadership

GaTech Muslim Students Association Vice President

August 2021 – May 2022

- Collaborated with 6 board members and co-orchestrated **40+** events, some with **over 200 attendees**, throughout the year to satisfy the religious, social, and professional desires of the **110+** members
- Communicated with the non-profit PCRF to organize a marathon-weekend initiative fundraising over **\$15,000**