

Raeedah Choudhury

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

BS IN BIOMEDICAL ENGINEERING

May 2018 | Atlanta, GA

GPA: 3.79

Minor in Computer Science

Graduated High Honors

SKILLS

PROGRAMMING

Assembly • Java • MATLAB • C
VHDL • Verilog

COMMUNICATION

Technical Writing • SolidWorks
Customer Service • Spanish • Bengali

COURSEWORK

ENGINEERING

Capstone
Biomaterials
Problems in Biomedical Engineering
Intro to Biomedical Engineering Design
Biotransport
Biomechanics
Cell and Molecular Systems Physiology
Systems Physiology
Quantum Physiology Labs I & II
Systems Modeling
Conservation Principles
Material Science
Multivariable Calculus
Differential Equations
Statistics
Survey of Organic Chemistry
Statics
Instrumentation and Electronics Lab
Circuits and Electronics
Thermodynamics
Aerodynamics

COMPUTER SCIENCE

Advanced Computer Organization
Processor Design
Digital Circuit Design Lab
Design of Operating Systems
Systems and Networking
Computer Organization and Programming
Object Oriented Programming
Computing for Engineers (Teaching Asst)

PROJECTS

CAPSTONE | PEDIATRIC INTUBATION

Jan 2018 - May 2018 | Atlanta, GA

- Worked to improve intubation techniques for pediatric patients to decrease trauma and insertion times
- Developed working prototype of laryngoscope featuring a sheath for an endoscopic camera, channel for endotracheal tube, and angulation piece for adjusting angle of the endotracheal tube once inside the glottic opening

BIOMEDICAL ENGINEERING DESIGN | MEDICAL DEVICE REDESIGN

Jan 2017 - May 2017 | Atlanta, GA

- Worked with a team to design assistive tool for applying peripheral vein catheters to increase accuracy and provide stability in high-stress environments such as ambulances.
- Made 3D printed prototype and proof-of-concept for near-infrared vein locator

PROBLEMS IN BIOMED ENGINEERING | CONCUSSION PREVENTION

Aug 2016 - Dec 2016 | Atlanta, GA

- Worked with a team to design a transcranial magnetic stimulation device for athletes to prevent long-term brain damage from concussions.
- Conducted mathematical models of diffuse axonal injury and created circuit model of action potentials through interacting neurons.
- Presented work at Tech4Good Showcase December 2016.

EXPERIENCE

GEORGIA TECH | RESEARCH ASSISTANT, HAIDER LAB

June 2017 - August 2017 | Atlanta, GA

- Wrote MATLAB code to process experimental data.
- Worked to quantify relationship between change in pupil size of mice with performance during a task.

GEORGIA TECH | TEACHING ASSISTANT, CS 1371

August 2016 - May 2018 | Atlanta, GA

- Conduct recitations with prepared materials and activities.
- Host office hours to assist students on homework.
- Write upcoming homework and test problems with solution code

MCDONALD'S | CREW MEMBER

May 2016 - Aug 2016 | Katy, TX

- Took orders and payments for drive thru and lobby.
- Prepared drinks and serve orders.
- Maintained cleanliness of kitchen, drive thru, and lobby.
- First non-academic job, often received manager's recognition.

KROGER | CASHIER

May 2016 - Aug 2016 | Katy, TX

- Customer checkout at traditional and self-serve stand
- Provided assistance for customers to ensure they have the best experience.

BEST IN CLASS EDUCATION | TUTOR

Jan 2015 - Mar 2015 | Katy, TX

- Taught and assisted students grades K-12 in mathematics.