

Abdullah Akbar

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EDUCATION

Stony Brook University / College of Engineering & Applied Sciences

Stony Brook, NY

Bachelor of Engineering (B.E) in Electrical Engineering

August 2016 – July 2022

- **Organizations:** IEEE, Society of Asian Scientists and Engineers, National Society of Black Engineers

- **Awards:** Dean's List Fall 2016

- **Relevant Courses:** Calculus 4, Computer Techniques for Electronic Design I & II, Electric Circuit Analysis I & II, Digital Systems Design

Benjamin N. Cardozo High School

Queens, NY

Advanced Regents Diploma

September 2013 – June 2016

- **GPA:** 4.0/4.0

- **Awards:** Principal's Honor Roll, ARISTA National Honors Society, FRC Robotics Rookie Inspiration Award

- **Extracurricular Activities:** Model U.N., Autism Speaks, Science Olympiad, FRC Robotics Team 5599

PROJECTS

Kinematic Gait Analysis Leg Sensor – Arduino & Embedded-C – Senior Design Project

Fall 2020 & Spring 2021

- Developed an Arduino MKR WIFI 1010 based prototype which utilized two Bosch BNO055 IMU sensors to perform leg gait analysis.
- Performed yearlong research on gait analysis techniques and updated advisors with progress reports periodically throughout semesters.
- Researched Embedded-C Microcontroller options to develop final fabricated PCB design as a part of deliverables in Spring 2021.

Banking Queue Simulation – C++

Spring 2018

- Programmed an automated banking queue in C++ to handle customers and tested it with simulated day-to-day bank transactions.
- Implemented file system to store customer account numbers, names, balances, transactions, and tested it with simulated customers.
- Use of the STL library containers along with object-oriented programming and inheritance to record simulated customer balances.

PROFESSIONAL EXPERIENCE

SCC Construction Management Group Inc.

Hauppauge, NY

Assistant Project Manager Internship

July 2020 – August 2020

- Point of contact to Senior Architects from H2M and BBS Engineers & Architects on a grand total of \$2.2M school renovation project.
- Performed on-site Punjabi, Urdu, Hindi, and Spanish to English translations to maximize corroboration between laborers and Architects.
- Conducted daily notetaking at job sites to write email reports after work to Construction Manager, utilized in meeting minutes.
- Responsible for staying at job sites until Contractors and workers were done for the day to ensure OSHA safety protocols were followed.

Surge Inc.

Queens, NY

General Contractor / Project Manager

August 2015 – August 2021

- Drafted school renovation construction bid contracts on short deadlines using PlanSwift under supervision of CEO General Contractor.
- Conducted daily notetaking at job sites to write email reports after work to CEO to aide on bid deadlines and utilize in meeting minutes.
- Coordinated procurement of materials such as masonry pavers, lumber, and steel from suppliers and maintained balance on Excel sheets.
- Responsible for driving Ford E250 5.4L V8 work van to transport steel beams, laborers, and other supplies to and from job sites.

Wilson-Bennett Technology

Stony Brook, NY

Student Ambassador Caller

September 2018 – December 2018

- Reached out to Stony Brook University alumnus and other associates to generate donation revenue of almost \$30,000.
- Responsible of keeping records of all conversations with donors in the call center database in a comprehensible manner.

LEADERSHIP EXPERIENCE

FIRST Robotics Team (FRC) – Benjamin N. Cardozo High School

New York, NY

Founder / Electronics Captain

September 2015 – June 2016

- Led the role in founding the team, reached out to FIRST Robotics and school officials to receive official recognition.
- Entrusted with the role of developing and overseeing all electrical structures, serving as the backbone for all the robot's functions.
- Competed against other high schools at the official FRC NYC Regional Competition and won the Rookie Inspiration Award.

Sigma Beta Rho Fraternity Inc. – Stony Brook University

Stony Brook, NY

Philanthropy Chair

October 2017 – December 2017

- Organized and coordinated fundraising events on campus, proceeds went towards national philanthropy, SOS Children's Villages.
- Coordinated a Breast Cancer Awareness event where members helped set tables and participated in the walk and activities.

SKILLS AND INTERESTS

Software: Microsoft Office Suite, Visual Studio, Minitab, Adobe Photoshop, Atmel Studio, ActiveHDL, PlanSwift

Certifications: OSHA 30-Hour Construction Safety and Health

Programming Languages: C, C++, Java, Python, Ruby, Assembly, MATLAB, HTML.

Languages: Fluent in English, Hindi, Urdu, Punjabi, and intermediate in Spanish.

Interests: Computer Hardware, Robotics, 3D Modeling, Motorcycles, Standup Comedy, Finance, Hip-Hop Music, and Streetwear.