

Current Address:

1600 Harden Street, MSC#533
Columbia, SC 29204
(404-543-0112)

Permanent Address:

3648 Gilpin Ct,
Lawrenceville, GA 30044
(404-543-0112)

EDUCATION

Bachelor of Science in Electrical Engineering

Benedict College, Columbia, SC

Expected Graduation May 2017

Overall GPA: 4.00/ 4.00

RELATED EXPERIENCE

IBM Corporation, Almaden Research Center, San Jose, CA

May 2016 – Aug 2016

American Physical Societies (APS) Summer Co-op pre Professional Software Engineer

- Conducted research on developing Neural Network algorithms/ Brain inspired Computing to solve future analytics and forecasting systems to be implemented various technological applications based on Hierarchical Temporal Memory (HTM)/ Context Aware Learning (CAL) theory in Nanoscale Fabrication Team.

Richland Penny Internship Program, Columbia SC

January 2016 – April 2016

Engineering Intern (Design Engineer)

- Worked on three offsite locations including transportation companies Mead and Hunt Corporation & Holt Consulting
- Team projects on designing and building various electrical systems, transportation systems and graphical design
- Graphical Design using AutoCAD, Aeronautics, airport and highway design, standardizing design documents, etc.
- Collecting real-time traffic data and analysis.

Benedict College, Physics and Engineering Department, Columbia SC

August 2014 – Present

Research Assistant, Center for Materials, Nano-Technology and Energy Security Lab

- Developing economically reliable and energy efficient materials for secured information storage, heat transfer
- Data analysis, Data acquisition, operating XRD machine, UV VIS, SEM, EDEX, Quadrem free high magnetic closure system
- Using COMSOL, MATLAB, LABVIEW and C++ to design and simulate sample (sample holder)

Benedict College, Summer Undergraduate Research Institute (SURI), Columbia SC

May 2014 – July 2014

Summer Undergraduate Research Intern

- Executed research on "Isolation of Transglutaminase on Breast Cancer Cells"
- Performed simple and complex laboratory and diagnostic tests with minimal supervision
- Determined proper tests for research work. Extensive and comprehensive knowledge of related course material.

Benedict College Freshman Institute, Columbia SC

Student Success Trainer (SST)

August 2015 – Current

- Training freshman college students throughout their first year, advising, tutoring, guiding
- Assisting faculty with teaching and organizing team activities

TECHNICAL SKILLS

Hardware: Digital IO and Processor Design, Operating XRD, UV VIS, SEM, EDEX, Function Generator & Oscilloscope, Signal Processing, Analog and Digital Communications

Software: C/C++, COMSOL Multiphysics, HTML, MATLAB, Arbitrary Express SW, LabVIEW, CISCO, Stat Crunch, Object Oriented Programming, Star Logo TNG, OS Programming, Linux/Unix Programming, Skillful on all MS Office products

Language: Fluent in English, Amharic and Harari language, Intermediate Arabic

HONORS, AFFILIATIONS & LEADERSHIP EXPERIENCE

- Presidential Trophy Recipient, Presidents List 2015, 2016
- President of National Societies of Collegiate Scholars (NSCS), Benedict Chapter 2016-2017
- President of National Societies of Black Engineers (NSBE), Benedict Chapter 2016-2017
- National Societies for Leadership and Success (NSLS) Honors society member inductee 2016 - Present
- Princeton University Molecular Biology and Lewis-Sigler Institute (MOL/ QCB) SURI Program Scholarship Recipient 2016
- SGA Representative, Treasurer, Active member Benedict College School of Honors Student Association 2014-15, 16-17
- Georgia Institute of Technology (Georgia Tech) FOCUS program scholarship recipient 2016
- Oral Research Presentation, American Physical Societies (APS) Far West Meeting 2015 Long Beach, California 2015
- Active Member of IEEE Eta Kappa Nu (IEEE-HKN), APS(American Physical Society), NSBE (2014), NSCS, 2015 - Present
- United Nation Youth Leadership Conference Delegate, NY 2015
- Member of Power for good Coalition male organization & Leadership Development Institute 2014
- President of ISA (International Student Association) 2014 - Present
- TRUSTEE CLUB, INTERNATIONAL, OYMISCEL, PRESIDENTS scholarship Recipient 2014 - 2015

COMMUNITY INVOLVEMENT

- Participated in a 2-day intensive leadership weekend, Benedict College (Leadership Conference) & Training + Physical Fitness (Fort Jackson Military Base, Columbia SC) 2014, 2016
- Introduced and organized Engineering concept and team projects/ huddle at Ridgeview and Dutch Fork High School 2016
- Leader and volunteer at United Global Outreach Bitlo, FL & Second Harvest Food Bank of Central Florida, Orlando 2015
- 3 times Harambee Festival Volunteer and organizer, Benedict College 2014
- Preparation for Leadership and Unity through Service Day Volunteer 2014
- Participated on Benedict College Leadership Challenge and performed well with a high degree of self-motivation 2014
- NSBE Community service and fundraising event organizer and participant 2014, 2016

PUBLICATIONS

- Mohammed Abdi, Hohite Fetene, and Naima Naheed. GPS Positioning Algorithm, its Errors and Solution. International Journal of Advanced Research in Computer Science and Software Engineering, February, 2016. Vol. 6, No. 2, p28-30.
- Wang, Leizhi, Ming Yin, Mohammed Abdi, and Timir Datta. "Linear magnetoresistance in three-dimensional carbon nanostructure with periodic spherical voids." Applied Physics Letters 107, no. 2 (2015): 023103.
- Hohite Fetene, Mohammed Abdi, and Hong Jiang. Modelling Well-Mannered Society with Emotional Agents to Promote Students' Learning. International Journal of Advanced Research in Computer Science and Software Engineering, October, 2015. Vol. 5, No. 10, p147-151.