

Bomi Garuba
91 Aldgate Avenue, Stoney Creek, ON, L8J 0J1
(437) 981-0991 || Bomigaruba@cmail.carleton.ca || Website:
<https://www.bomigaruba.tech/> ||

PROFILE

<https://www.bomigaruba.tech>

WORK EXPERIENCE

Research Co-op Intern

September 2020 – April 2021

Department of Electronics, Carleton University

- This project focuses on the development of the required sensor technologies, primary of which will be a sensor array to measure the count and distribution of charged particles emitted during energy releasing event
- Developed design schematics for the particle detection system and sensor driver circuits for application in a high vacuum chamber
- Compiled scholarly research material on PIN Diode sensor configurations for particle detection
- Reference: Aaron English, Co-op Supervisor: a.english@soleinium.com

Cashier/Server

December 2018 – March 2019

Cacao 70 Lansdowne, Ottawa, ON

- Served customers in a fast and accurate manner, that resulted in reduced waiting times and more satisfied customers
- Led checking inventory and stocking deliveries on delivery days
- Trained co-workers to handle deliveries by showing them where things belong and giving clear and concise instructions

VEX Robotics EDR competition judge

December 2018 – February 2019

VEX Robotics Competition, Longfield-Davidson Heights High School, Ottawa, ON

<https://vexrobotics.com/vexedr>

- Critiqued contestants on their robot designs based of aesthetics, ease of mobility, circuitry, component optimization, and functionality
- Identified defects that arose in a contestant's robot on the spot and aided in fixing issues
- Compiled all evaluations from the team of judges and wrote a team-oriented report outlining the most impressive robot builds and identifying the overall winner of the competition
- Reference: Richard Seniuk, Support Manager: richard_seniuk@vex.com

Mobile Phone Technician Intern

June 2013 – December 2013

Raphigreat Institute of Technology / Electronics Repair Store, Abuja, Nigeria: <https://www.facebook.com/rit.com.ng/>

- Worked as a trainee for the summer period and then part-time employee due to senior year high school commitments. Troubleshooted gadgets and smartphones for any issues such as cracked screens, distorted audio quality, or overheating issues
- Soldered off faulty components within devices and replaced them with newer versions as well as instructed the customer on how to avoid the same issue from occurring again
- Referred customer with devices that could not be fixed at the electronics store to any other repair stores close by
- Reference: Ade Raph, Store Manager: <https://www.facebook.com/thevoiceofthemassee>

Research project Team Leader

Sept. 2018 – Dec. 2018

Internal Combustion Engine research group

- Collaborated with 3 other undergraduate engineering students from different streams to work on a project to redesign the internal combustion engine used in most commercial airplanes
- Compiled all the research and facilitated a detailed and informative presentation on the team's findings to a select group of engineering professors interested in research about how the internal combustion engine could be made more fuel efficient and environment friendly

EDUCATION

Ontario Secondary School Diploma
2017

September 2016 – June

Columbia International College (University Prep.), Hamilton, ON

Bachelor of Engineering, Electrical

September 2017 - Present

Carleton University, Ottawa, ON

- 3rd Year Undergraduate,
- Expected graduation May 2022
- 2017 Entrance Scholarship \$4000

SKILL, ACCOMPLISHMENTS, AND TECHNICAL EXPERIENCE

- Diagnosed faulty electronic devices brought to the electronics retail/repair store for issues ranging from muffled audio systems and overheating issues to smartphones with cracked screens and soldered off the damaged components then replacing with newer versions
- Rendered a 3D lock key STL document for an introductory engineering course (ECOR 1010) at Carleton University using AutoCAD
- Generated a retro video game console emulator machine on a Raspberry Pi 3 module to play ancient Nintendo Ds video games by programming ROMs onto the raspberry pi configuration setup file
- Performed signal analysis on an operational amplifier circuit with a waveform function generator and a pair of oscilloscope signal probes
- Developed a Tic-Tac-Toe computer game utilizing BlueJ, an object-oriented programming software app, in an efficient manner as part of a personal project
- Performed Front-end and Back-end development on a website I curated using HTML5, JavaScript, CSS, and PHP as web tools then hosted it online through Zyro
- Examined VEX robotics competition contestants' robot designs if they fit certain criteria and if the contestant had gone the extra mile to achieve excellence in a fair playing field
- Designed a digital alarm clock simulation using Verilog as the register-transfer level coding language and a Nexys 4 DDR Artix-7 FPGA board as the digital circuit platform
- Debugged code on C++/C/Java, which resulted in better working programs and better software design

Carleton University Unofficial Transcript

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Garuba, Olabomi Eytipe

11-DEC

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OEN: 589000215

Department and Course Title	Course Number	Credit Value	Grade	Point	Comments
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Fall 2017 (September-December)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
History: Early Modern Europe 1350-161	HIST 2204	0.50	C-	2.00	
Chem.: Chemistry for Engineers	CHEM 1101	0.50	B+	4.50	
Math/Stats: Linear Algebra (Eng. or Math)	MATH 1104	0.50	A	5.50	
Engin.: Introduction to Engineering	ECOR 1010	0.50	D+	1.50	
Math/Stats: Calculus for Engin. or Math	MATH 1004	0.50	C	2.50	

Winter 2018 (January-April)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
Math/Stats: Diff. Eqs. & Series Eng.	MATH 1005	0.50	B+	4.50	
Classical Civi.: Survey of Roman Civ.	CIVC 1003	0.50	A-	5.00	
Engin.: Mechanics I	ECOR 1101	0.50	D	1.00	
Phys.: Electromagnetism & Wave Motion	PHYS 1004	0.50	B-	3.50	
Engin.: Problem Solving and Computers	ECOR 1606	0.50	B-	3.50	

Good Standing

Fall 2018 (September-December)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
Comm. Crses Discipline & Prof.: Comm	CCDP 2100	0.50	A-	5.00	
Math/Stats: Multivariable Cal. Eng or Math	MATH 2004	0.50	F	5.50	
History: 19th Century Germany	HIST 2510	0.50	A	5.50	
SysComp. Eng.: Foundations Imperative	SISC 2006	0.50	A	5.50	
Elect.: Circuits and Signals	ELEC 2501	0.50	A-	5.00	

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Winter 2019 (January-April)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
SysComp. Eng.: Object-Oriented Softw	SISC 2004	0.50	A-	5.00	
Elect.: Electronics I	ELEC 2507	0.50	A-	5.00	
Engin.: Numerical Methods	ECOR 2606	0.50	B	4.00	
Elect.: Switching Circuits	ELEC 2607	0.50	C	2.50	

Good Standing

Summer 2019 (May-August)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
Math/Stats: Multivariable Cal. Eng or Math	MATH 2004	0.50	A	5.50	
Engin.: Mechanics I	ECOR 1101	0.50	A-	5.00	

Fall 2019 (September-December)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
Co-op: Co-op	COOP 1000	0.00	SAT	1.50	
Phys.: Modern Physics for Engineers	PHYS 2004	0.50	D+	5.50	
Elect.: Digital Electronics	ELEC 3500	0.50	A	5.50	
Elect.: Physical Electronics	ELEC 3908	0.50	C	2.50	
Elect.: Electronics II	ELEC 3509	0.50	C	2.50	

Winter 2020 (January-April)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION					
Elect.: Basic EM and Power Engineeri	ELEC 3105	0.50	SAT	1.50	
Elect.: Engineering Project	ELEC 3907	0.50	SAT	5.50	
SysComp. Eng.: Systems and Simulator	SISC 3600	0.50	SAT	5.50	
Elect.: Physical Electronics	ELEC 3908	0.50	UNS	2.50	

Good Standing

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Number Value Grade**
Grade Point Comments

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Fall 2020 (September-December)

BACHELOR OF ENGINEERING ELECTRICAL CO-OPERATIVE EDUCATION
ELECT.: Co-op Work Term EIBC 3999 0.00 CUR

Student Scholarships
2017 Carleton University Entrance Scholarship

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