

1. CITIZENSHIP: Guyana**RESIDENCE:** Estonia**2. EDUCATION**

M.Sc University of Tartu, Robotics & Computer Engineering 2021 - 2023
Thesis: “An Open Source Robotic Study Companion for University Students”
Advisors: K.Kruusamäe, S.Schumann, A.Luhtaru
Leadership Program; 146/120 ECTS

B.Sc University of Guyana, Computer Science 2016 - 2020
Thesis: “Investigating the Use of an Affective Robot to Aid Students with
Learned Helplessness”
Overall GPA 3.6/4.0 | Major GPA 3.8/4.0

CSEC Global Technology, Physics & Chemistry 2012 - 2013

CSEC Al-Ghazali Islamic Academy, Business Studies 2006 - 2011
Valedictorian; Best Graduating Student; Head Prefect

3. RESEARCH INTEREST

Human-Robot-Interaction, Social Robots, Affective Computing, Educational Technology,
Affective Robotics, Special Educational Needs

4. RESEARCH EXPERIENCE | PUBLICATIONS**XR Teleoperation Demo Development**

University of Tartu, Estonia

July 2023

Co-Authors: M. Zorec, U. Norbistrath

Conference: iMETA 2023 (accepted)

**An Evaluation of a Hybrid STEM-Robotics Programme for Students with
Special Needs in Guyana**, Guyana 2022 - 2023

Co-Authors: P. DeFreitas, M. Zorec, J. Todd, O. Vanlewin

Conferences: World Literacy Summit 2023, HCI International 2023

DOI: 10.1007/978-3-031-35992-7_36

University of Tartu, Estonia

Feb 2022 - Jun 2022

Student Intern, iCV Research Lab

- Research on Gaze Estimation Methods.

5. PROFESSIONAL EXPERIENCE

SDTSystems, Slovenia

Feb 2022 - Sept 2022

IoT Intern

- Erasmus+ traineeship (Jun - Sept 2022)
- Researching and investigating development solutions
 - IoT Development: NB-IoT and LoraWAN.
- Solidworks modeling of electronic components.
- Proficient in report organizing and concise presentations.
- Startup network ecosystem experience in Slovenia.

University of Guyana, Guyana

Oct 2020 - Sept 2021

Assistant Web and Social Media Coordinator

- Coordinated with Web Dev team for website development.
- Provided technical support for online presence.
- Resolved end-user support issues.
- Developed ICT policies for campus-wide usage.

University of Guyana Robotics Club, Guyana

Oct 2016 - Dec 2020

Founder | Student President

- Established a multidisciplinary makerspace.
- Organised workshops and public events (*including* Roboduino 2019, RoboPi 2020, MLH Hack Day 2019, among others)
- Mentored undergraduate students.
- Managed and coordinated STEM projects.
- Sought out, networked with and visited universities abroad (*including* The Savannah College of Design (SCAD), Georgia Institute of Technology (Georgia Tech), Startup Incubators in Atlanta, New Jersey Institute of Technology (NJIT).

6. TEACHING | MENTORING EXPERIENCE

Guyanese Girls Code, Online

Jun 2021 - Aug 2022

Mentor | Trainer, Office of the Prime Minister Guyana

- Developed the first national-virtual GGC Summer Camp.
- Educated over 70+ Guyanese girls.
- Taught problem-solving and programming using Scratch.
- Facilitated the programme for two consecutive years.
- Expanded curriculum and integrated VEXCode VR.

University of Guyana, Turkeyen Campus

Academic Tutor | Lab Instructor, Department of Computer Science

- Information Management Concepts and Fundamentals - ITE1200
April 2021 - July 2021
- Computer Literacy - MNG2100
Sept 2018 - Dec 2018

STEM Robotics SEN Programme, Guyana

Jan 2020 - Dec 2020

Coordinator | Trainer, Guyana Council of Organisations for Persons with Disabilities

- Led team in developing a novel STEM-Robotics curriculum.
- Implemented curriculum in 5 Special Educational Needs Schools.
- Worked with students with various disabilities in Guyana.

FIRST Global, Guyana Mar 2017 - Feb 2019
Team Mentor | Manager, Guyana National Robotics Team

- Co-founded the national team for the inaugural competition.
- Oversaw technical and administrative aspects of managing the team.
- Represented Guyana in Washington DC (2017) and Mexico City (2018).

STEM Outreach and Engagement, Guyana July 2016 - Jan 2019
Mentor | STEM Ambassador, STEMGuyana

- Contributed to outreach programs promoting STEM education.
- Conducted interactive workshops, seminars, and training sessions (*including collaborations with*: St Ann's Orphanage for Girls, Guyana Deaf Association, St. John Bosco Orphanage, etc).
- Assisted in organising competitions, events and exhibitions (*including* National Robot & Tech Exhibition 2017 & 2018, Berbice Tech Exhibition, etc).
- Engaged in promoting hands-on learning and innovation in STEM.
- *Events Participated*: Youth Innovation Project of Guyana (YIPoG), DevX - Developers Exhibition, GTT Innov8 Summit, International Women's Day Expo, Annual Orphan and Vulnerable Children (OVC), among others.

7. PROFESSIONAL TRAINING

ENLIVE Virtual Exchange Project Feb 2023 - Apr 2023
 ENLIGHT University Network, Online

Open Seventeen (O17) Challenge Oct 2019 - Nov 2019
 Citizen Science Centre Zurich, Online

Global Entrepreneurship Exchange Program July 2019
 University of Massachusetts Lowell, USA

Introductory Qualitative Research Method Jan 2019
 University of Florida | University of Guyana

8. PROFESSIONAL AFFILIATIONS

University of Guyana Robotics Club 2020 - Present
 Advisor | Mentor

Tartu Hackerspace (Häkkerikoda) Feb 2023 - Jun 2023
 Member | Workshop Co-organizer

Caribbean Education Project (CaribEd) Mar 2020 - Dec 2020
 Guyanese Representative | Coordinator

University of Guyana Student Clubs 2017 - 2019

- CompSci TechEd Rev Club, *Co-founder | Vice President*
- Girls in Computing Club, *Member*
- UG Astronomical Society, *Member*

Guyana Philatelic Society 2017 - 2018
 Member | Stamp Collector Enthusiast

9. ACADEMIC CONFERENCES

HCI International Conference <i>Student Volunteer</i> (Denmark)	July 2023
Cyber Innovation (Küberinnovatsioon) Conference <i>3D Printing Workshop Volunteer</i> (Estonia)	June 2023
22nd Biennial Caribbean Academy of Science (CAS) Conference <i>CAS Talk Panelist, Youth in Science Forum</i> (Online)	Aug 2021
University of Guyana Undergraduate Research Conference (URC) <i>Student Volunteer Session Chairperson</i> (Guyana)	Apr 2019
CARINA/UWI Astronomy Conference <i>UG Representative Attendee</i> (Trinidad)	May 2017

10. PRESENTATIONS | INVITED TALKS

Orientation for New and Continuing Students by Faculty of Natural Science, University of Guyana <i>Presenter (Understanding the Value of Student Clubs)</i>	Oct 2021
Virtual Tech Fair by Girls in Tech & UniGuyana CompSci Dept <i>Cohost Presenter</i>	Aug 2020
GEP Guyana Networking Event by the University of Guyana <i>Speaker Co-organiser</i>	Sept 2019
Talk on Robotics , National Science Camp by the Ministry of Education, <i>Speaker (Robotics as a field of study & getting started in Guyana)</i>	July 2018
Ministry of Public Telecommunications, <i>Presenter Panelist</i> <ul style="list-style-type: none">• Launch of Guyanese Girl Code Program• Girls in ICT Day Event	Apr 2018 Apr 2018
Tech Talk 2017 by UG CS TechEd Rev Club <i>Co-organiser Presenter (Robotics Kits)</i>	Sept 2017
Public Seminar on Astronomy and Astrophotography by UGAS (UG Astronomical Society) & AAAG (Amateur Astronomer Association of Guyana) <i>Presenter</i>	Sept 2017

11. COMMUNITY SERVICE

University of Tartu Buddy Programme <i>Buddy Helper, Aug 2022 - Jun 2023</i>
Garage48 Hackathon <i>Materials Co-Mentor, Feb 2023</i>

University of Tartu Nature Museum: Loodusfestivali / Nature Festival
Student Photographer, Estonia, Jun 2022

Dept of Computer Science: Open|Career Day Exhibition
Student Volunteer, University of Guyana, 2017 - 2019

Lusignan - Good Hope Learning Centre
Mentor | STEM-Robotics Teacher, Guyana, Feb 2017 - Dec 2019

Brickdam Youth Group
Lego Robotics Teacher, Guyana, Sept 2016 - Dec 2016

Science Fair Judge

- Georgetown International Academy, May 2018
- St. Rose's High School, Nov 2017

Host | Co-organiser | Volunteer

- Hackerspace LinuxFest, Mar 2023
- Virtual Hour of Code Event, UG Robotics Club, Dec 2020
- Introduction to Robotics for Medical Imaging Students, Feb 2020
- Graphic Design Workshop, University of Guyana, Mar 2019
- CS50x Puzzle Day, UG CS TechEd Rev Club, Apr 2017 & Mar 2019
- Tech4Girls Google Home Workshop, CANTO/GSMA, Jan 2019
- CybersecurityED Exhibit - Cybersecurity Awareness Month, UG Cybersecurity Club & CS TechED Rev Club, Oct 2018
- Software Freedom Day 2018, University of Guyana Free & Open Source Software (FOSS) Club, Sept 2018
- National Hour of Code Outreaches at 5 schools in Guyana, Dec 2016 - Jan 2017
- Introductory Lego Robotics Workshop, UG CS Dept, Oct 2016 - Nov 2016

12. TRAININGS, WORKSHOPS, OTHERS

UniTartu Student Project Contest, Student Participant	Jun 2023
EdTech Estonia Hackathon, Participant	Oct 2022
Demo4Green Approach Training, Student Participant	Jun 2022
3D Printing Workshop, Online Participant	Apr 2022
Pueblo Science Workshop, Student Participant	Aug 2017

13. LANGUAGES

English: Native Language
Creoles and pidgins, English-based: Native Language

TOEFL iBT® Score: **96**
Online Linguistic Support (OLS) English Test: **C2**

14. COMPUTER SKILLS

Programming: Python, Web Dev (HTML, CSS, JS)

Libraries: Pandas, Matplotlib, Seaborn, Numpy, OpenCV

Applications: Solidworks, Tinkercad, Github, Zotero, OpenGL, ROS, LabVIEW
PrusaSlicer, Cura, LaTeX, Google Workspace, WPS Office, Microsoft Suite, Trello

Platforms: Windows, Linux (Ubuntu, Raspbian | Raspberry Pi OS)

15. HONOURS AND AWARDS

HCI2023 Student Design Competition, Bronze July 2023
for RSC [Robotic Study Companion] Project

30 Under 30 Caribbean Changemaker Honouree June 2022
by Ignite Caribbean

DeltaX Competition Jan 2022

- [Team BTS] Robot Basketball, 3rd place
- [Team AWB] Pitch for New Start-up Ideas, 3rd place

Women in ICT - Award of Excellence Nov 2021
by Office of the Prime Minister Guyana

The Council of the University Prize 2019/2020
by The University of Guyana

Dean's List 2018 - 2020
Faculty of Natural Science, University of Guyana

Guyana's National Youth Awards Aug 2019
Innovation in Science & Technology
by the Ministry of Culture, Youth and Sport, Guyana

Outstanding Women in Technology Award May 2019
by Girls+Technology Initiative

16. FEATURES

FIRST Global Newsletter Aug 2019
Recognition for the development of Guyana's first makerspace -
University of Guyana Robotics Club

Women in Engineering & Technology Awareness 2017 - 2019
#GYGirlPower campaign by the European Union & the Ministry of
Public Infrastructure, Guyana

More info via social profiles:

- [Goodwall](https://goodwall.io/farnaz-baksh) [goodwall.io/farnaz-baksh]
- [Linkedin](https://linkedin.com/in/farnaz-baksh) [linkedin.com/in/farnaz-baksh]
- [Facebook](https://facebook.com/farnazbaksh) [facebook.com/farnazbaksh]