

**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 (in review)

**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

Conference paper: 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

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

## 10. PRESENTATIONS | INVITED TALKS

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

## 11. COMMUNITY SERVICE

<b>University of Tartu Buddy Programme</b> <i>Buddy   Helper, Aug 2022 - Jun 2023</i>
<b>Garage48 Hackathon</b> <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

<b>UniTartu Student Project Contest, Student Participant</b>	Jun 2023
<b>EdTech Estonia Hackathon, Participant</b>	Oct 2022
<b>Demo4Green Approach Training, Student Participant</b>	Jun 2022
<b>3D Printing Workshop, Online Participant</b>	Apr 2022
<b>Pueblo Science Workshop, Student Participant</b>	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]