

1. CITIZENSHIP: Guyana**RESIDENCE:** Estonia**2. EDUCATION****Ph.D University of Tartu**, Computer Engineering 2023 - Present*Focus:* Human-Robot Interaction (HRI) - Education & Social Robotics

Supervisor: K.Kruusamäe

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

Sept 2023

Co-Authors: M. Zorec, U. Norbistrath

Conference: iMETA 2023

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 modelling of electronic components.
- Proficient in report organising 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

University of Tartu, Estonia

Sept 2023 - Present

Specialist in Robotics, Institute of Technology

- Creating lab manuals for LOTI.05.097 Computer-Aided Design (3 ECTS)
- Teaching Assistant for LTTI.00.004 Basics of Electronics (5 ECTS)
- Supervising BSc Students' Thesis
- SemuBot Project - Engineering Team

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

- STRADA Women in Manufacturing** Sept 2023 - Dec 2023
 EIT Manufacturing, Online
- 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
<ul style="list-style-type: none"> • CompSci TechEd Rev Club, <i>Co-founder Vice President</i> • Girls in Computing Club, <i>Member</i> • UG Astronomical Society, <i>Member</i> 	
Guyana Philatelic Society	2017 - 2018
Member Stamp Collector Enthusiast	

9. ACADEMIC CONFERENCES

Physiology in Focus <i>Student Volunteer</i> (Estonia)	Sept 2023
HCI International (HCI2023) <i>Student Volunteer</i> (Denmark)	July 2023
Cyber Innovation (Küberinnovatsioon) <i>3D Printing Workshop Volunteer</i> (Estonia)	June 2023
22nd Biennial Caribbean Academy of Science (CAS) <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)
Presenter Sept 2017

11. COMMUNITY SERVICE

University of Tartu Buddy Programme
Buddy | Helper, Aug 2022 - Jun 2023

Garage48 Hackathon
Materials Co-Mentor, Feb 2023

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 , <i>Student Participant</i>	Jun 2023
EdTech Estonia Hackathon , <i>Participant</i>	Oct 2022
Demo4Green Approach Training , <i>Student Participant</i>	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
for RSC [Robotic Study Companion] Project

July 2023

30 Under 30 Caribbean Changemaker Honouree
by Ignite Caribbean

June 2022

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
by Office of the Prime Minister Guyana

Nov 2021

The Council of the University Prize
by The University of Guyana

2019/2020

Dean's List
Faculty of Natural Science, University of Guyana

2018 - 2020

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

Aug 2019

Outstanding Women in Technology Award
by Girls+Technology Initiative

May 2019

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]