

## PERSONAL INFORMATION



## Isaac Thani Moses

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Google Hangouts Isaac Thani

Sex Male

## STUDIES APPLIED FOR

InnoEnergy Master's in Smart Electrical Networks and Systems/  
Renewable Energy

## WORK EXPERIENCE

01/2020–Present

## Robotics Student Project

Institute of Robotics and Computer Vision, Innopolis (Russia)

I am currently working on designing and developing an automated Barista(Coffee Serving Robot) together with teammates as part of this semester's Student's project in our institute.

10/2017–06/2019

## Research Student

Laboratory of Microprocessor Technology, Kazan State Power Engineering University., Kazan (Russia)

- I worked on a close-range radar system for obstacle detection and avoidance for miniature vehicles, worked on a few group-based projects with other students, attended, presented and published at student conferences.
- I also worked on my bachelor's thesis "Development of a Real Time Data Collection System using Raspberry Pi and Arduino" Russian - "Разработка системы сбора данных в реальном времени с использованием Raspberry Pi и Arduino".

07/2018–04/2019

Renewable Energy Sources Working Group - Energy Summer School, Skolkovo School of Management Energy Center., Moscow (Russia)

Researching policies that can support the development of Renewable Energy Technologies in Russia, studying successful policies in other countries.

01/01/2017–07/04/2018

## Co-founder and CMO

Delat Systems, Kazan (Russia)

Worked on a startup that made 3D printers and other tools for makers and hobbyists.

01/11/2017–07/07/2018

## Engineering Intern - Electronics.

TEKO, Kazan (Russia)

01/06/2017–15/07/2017

## Science teacher secondary school

ABJ School of Music, The Gambia, Serrekunda (Gambia)

Served as a volunteer Science Teacher for Half of the School Term.

## 01/2014–03/2014 Volunteer Further Mathematics Teacher

Calvary Arrows College, Gboko (Nigeria)

I taught further mathematics classes and helped senior students prepare for examinations as a volunteer teacher supersized by my former Teacher and Mentor.

## EDUCATION AND TRAINING

### 19/08/2019–Present MSc Robotics and Computer vision

Innopolis University, Innopolis (Russia)

<https://university.innopolis.ru/en/>

Awarded a full merit-based scholarship opportunity to study Robotics.

My Team won the InnoRoboHack - 3rd Place. Developed and Interface for controlling the Russian Humanoid Robot Fedor(Skybot-F850) in Simulated Space Environments - Dec 2019.

Working on Variable Stiffness Actuators, Twisted String Actuators and Autonomous Coffee Serving Robot using Kuka Robot.

Studying:

Advanced Robotics

Computer Vision

Autonomous Systems

Cognitive Robotics

Dynamics of Non-Linear Robotic Systems

Fundamentals of Robot Control

Sensors, Perception, and Actuation

Fundamentals of Robot Programming

Machine Learning

### 01/09/2015–12/07/2019 Bachelors Degree

Kazan State Power Engineering University, Kazan (Russia)

<https://en.kgeu.ru/>

- I was the President of the Union of International Students,
- Won the best Student 2019 (Лучший студент - 2019) International Category, Rector's Award for Excellence in Academic Work(2016 -2018), Rector's Award for Community Service(2016-2018), Mathematics, Theoretical Foundation of Electronics and International Student's Legal Studies Olympiads Winner.
- Learnt Project Management Training.

### 03/12/2014–27/07/2015 Russian Language and Pre-University Preparation

Voronezh State University of Engineering Technologies, Voronezh (Russia)

I enrolled for and completed a Russian Language Course for International Students, was an active member of the Faculty Choir and won the Russian Language and Physics Olympiads during the course of my studies.

### 04/04/2014–11/2014 Industrial and Production Engineering

University of Ibadan, Ibadan (Nigeria)

I got admitted for a 5 year Engineering Program but transferred to Russia in my Second Semester

### 01/09/2007–06/07/2013 West African Senior School Certificate

Calvary Arrow College, Gboko (Nigeria)

FURTHER MATHEMATICS A, MATHEMATICS A, CHEMISTRY B, PHYSICS B, ECONOMICS A, GEOGRAPHY A, ENGLISH B, BIOLOGY B, TECHNICAL DRAWING B.

Member of Junior Engineers, Technicians and Scientists(JETS) Club Academic and Project Teams.Represented the School in Maths and Science Competitions locally, nationally and internationally and won. Assistant Head prefect.

## PERSONAL SKILLS

**Mother tongue(s)** English, Minda, Panya, Hausa

### Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Russian	C2	C2	C1	C1	C1
Result of PreUniversity Preparation					
French	A2	B1	A2	A1	A2
English	C2	C2	C2	C1	C2
IELTS					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages - Self-assessment grid

**Communication skills** Good communication skills developed during my time Teaching and Working on Projects

**Organisational / managerial skills** Good team leading skills applied during Projects, Hackatonsand Student Competitions.  
Can work and Collaborate in Teams.

**Job-related skills** C++, Python, Matlab, ROS,  
Embedded Systems  
Arduino,  
3D Design,  
Circuit Design

### Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Independent user	Independent user

Digital skills - Self-assessment grid

Office Suite - Independent User, LaTeX

Good command of Word processor, Spreadsheet, PowerPoint.

**Other skills** Translator - I translate from Russian to English.

## ADDITIONAL INFORMATION

I am currently a Graduate student(MS.c Robotics) at Innopolis University, Russia. I am interested in working with technology to improve human lives. I graduated in July 2019 with a BS.c in Electronics and Nanoelectronics with a strong background in Research and Publication, electronics, Applied Mathematics, Teamwork and Project Management. I am interested in working at the intersection of robotics, AI, energy technology, engineering, policy, and international development.

**Honours and awards** ■ Rector's Grant for Research work and Projects 2019.

- Rector's Recognition for Special Achievement in Academic work, КГЭУ, Kazan, May 2017, 2018.
- Rector's achievement for Contribution to Student Leadership 2017,2018,2019.
- Intel IoT Roadshow, IT Park Kazan, NOV 2015
- Bilateral Education Scholarship Awards(BEA) for Undergraduate Studies in Russia(Nigerian Scholarship Board and Russian Ministry of Education and Science), 2014-2019.
- LearnAfrica - NECO Excellence Awards, Jos, Nigeria 2013
- Kelvin Award, and Silver Medal, Eskom Expo for Young Scientists, Oct 2012, Johannesburg, S.A 2012

#### Conferences/Publications

- Delegate, Student Energy Summit 2019, Imperial College, London. I was invited as one of the 650 Delegates that participated in the Student Energy Summit 2019 at the Imperial College, London. The summit included various workshops, keynotes and breakout sessions addressing key elements of the energy transition, sustainability, and climate change by seasoned professionals from Industry and Academia. Participants and Speakers came from Student Energy branches worldwide and various Institutions.
- Moses I.T, Towards a more sustainable future: Energy transition in the UK, Presentation at the 4th Russian Forum for Young Specialists "Energy2030", Institute of International Relations and Eastern Studies, Kazan Federal University, Kazan 2019.
- Moses I.T, Akinola A.O.S, Akhmetvaleeva L.V., Development of Device for Object detection on Atmega328,Proceedings of the 8th Youth Science Competition "Tinchurin's Reading", Kazan State Power Engineering UNiversity, Kazan, 2018. Pages 246 - 247.
- Device for Object Detection on a RISC-Controller, Proceedings of the 11th All-Russian Scientific and Technical conference "Information technology in electrical engineering and electric power", Cheboksary, 2018. Pages 462-463(Russian).
- Moses I.T, Akinola A.O.S, Akhmetvaleeva L.V, DEVELOPMENT OF A MICROPROCESSOR SIMPLIFIED RADAR DEVICE, Proceedings of XXIV International Scientific and Technical Conference "RADIO ELECTRONICS, ELECTRICAL ENGINEERING AND ENERGY. Moscow,2017. Page 147(Russian)

#### Projects

- Henneh 3D Printer — 3D Printer(Video) Worked with a group of friends to design and manufacture a 3D printer for hobbyists and learners. Presented our project during maker fest and other events.
- Tri-Powered Lawn Mower — High School Project. Designed and fabricated an Eco-friendly Lawn Mower powered By AC Electricity,Battery and a Solar Panel as a High school Team project. This project won a Silver Medal at the Eskom Expo for Young Scientists 2012 in Johannesburg, S.A.