



# NYAGAKI GICHIA

ENGINEER | TECH EDUCATOR |  
ENTREPRENEUR

## CONTACTS

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## SKILLS

Arduino  
Project management  
Research  
Python Programming  
AutoCAD Electrical  
Rhinoceros 3D  
Human-Centered Design  
Certified Lifeguard and  
Swimming instructor

## PROFESSIONAL EXPERIENCE

### FOUNDER

*TinkCraft | February 2018 - Present*

- Encourages kids to engage in projects in a fun and hands-on way through DIY experiments and workshops that teach basic Engineering concepts aimed at nurturing creativity and exploration.

### HARDWARE RESEARCHER

*iHub Research | September 2015 - July 2016*

- Conducted research projects around technology, its use, and impact in Kenya and the wider African continent.
- Developed relevant partnerships and sought business opportunities around hardware design and education
- Coordinated the Kid's Hacker Camp program, teaching robotics to over 100 children cumulatively
- Provided Hardware Consultancy on projects

### PROJECT MANAGER, BUILDLAB

*iHub Research | May 2015 - August 2015*

- Designed and developed the Builders in Residence program designed and run to support young, local, enterprising hardware innovators
- Coordinated the Intel Buildathon which brought together hardware innovators to test the new Intel Galileo development boards
- Managed interns and projects

### RESEARCH INTERN

*iHub Research | May 2014 - July 2014*

- Developed a digital inventory tracking system

### ELECTRICAL DESIGN ASSISTANT

*M&E Consulting Engineers | August 2012 - September 2012*

- Designed the electrical system for a market in Nakuru
- Prepared Bills of Materials for Contractors



## AWARDS & HONORS

Juror, Lions of Science Awards, 2015

People's Choice Award, NASA Space Apps Challenge, 2013

Ambassador, WMIAfrica, 2013-2014

Participant, STEMAfrica, Goldman Sachs Forum 2013-2014

Participant, Undergraduate Health Research Workshop, 2012

Finance Secretary | Assistant Academic Affairs Secretary, Engineering Students' Association, 2013 | 2012

## PUBLICATIONS

Gichia, H. N (2015) Parking Sonar

## EDUCATION

BACHELOR OF SCIENCE | ELECTRICAL AND ELECTRONICS ENGINEERING

University of Nairobi | 2009 - 2015

## WORKSHOPS & TECHNICAL EXPERIENCE

### 2015 ICT4SI CONFERENCE

Collaborated on a project using ICT for health whereby users from remote areas could still access health information through their phones.

### 2015 WAZA EXPERIENCE

Worked as a technical trainer in this initiative which aims to foster active thinking and creativity in Kenyan youth through projects.

### 2014 MIT MEDIA LAB BOOST WEEK

Part of the Kenyan team working on the Sambaza Watts project which is a power strip that allows people in resource-constrained environments to add metering and mobile payment options to local micro-grids. We conducted market research, brainstormed and tested possible use cases of the product.

### 2013 NASA INTERNATIONAL SPACE APPS CHALLENGE

Designed an obstacle avoidance robot dubbed the "Roach Rover" which mimicked a spatial use-case while still being relevant for exploration in danger areas on earth.

### 2013-2014 WMIAFRICA

An ambassador program for female students in STEM that involved training, fieldwork, and research aimed at helping ambassadors effectively articulate ideas and discover ways to help their communities.

### 2012 UNDERGRADUATE HEALTH RESEARCH WORKSHOP

Designed tech solutions in the healthcare sector including an effective digital file management system.

### 2009-2014 NAIROBI FABLAB ROBOTICS PROGRAM

Part of the pioneer team of engineering students teaching robotics, engineering, and design to underprivileged children living in slum areas in Kenya, with a focus on girls. Partnered with The Girl Effect (Nike Foundation), Kuweni Serious, FunKidz Kenya and the Safaricom Women in Technology program which helped expand the reach of our work.