

## Contact

[www.linkedin.com/in/tom-kigezi-31807840](https://www.linkedin.com/in/tom-kigezi-31807840) (LinkedIn)

## Top Skills

Certified LabVIEW Associate Developer

Labview

Matlab

## Languages

Luganda (Native or Bilingual)

English (Native or Bilingual)

Spanish (Elementary)

## Honors-Awards

Neil Munro Prize

Howard-Mallalieu Bursary

Chancellor's International Research Scholarship

## Publications

Stochastic stability assessment of a semi-free piston engine generator concept

A remote direct sequence spread spectrum communications lab utilising the Emona DATEx

Sliding mode control for tracking of nonholonomic wheeled mobile robots

Presenting the Test Cell Algorithm for Solving Sudoku Puzzles

Toward An East African Community New Car Assessment Program

# Tom Kigezi

Modelling and Simulation Engineer at AVL Powertrain UK  
United Kingdom

## Experience

AVL

Modelling and Simulation Engineer

October 2018 - Present

Basildon, Essex, United Kingdom

Model-Based Engineering on the CAE & Data Science Team

Kiira Motors Corporation

Powertrain Systems Engineer

June 2014 - September 2015 (1 year 4 months)

Kampala

Hardware in the Loop (HIL) and Software in the Loop (SIL) simulation.

Automotive hybrid powertrain control design.

Visiting Scholar at the Centre for Automotive Research at The Ohio State University (Sept 2014 - June 2015).

Worked with the EcoCAR vehicle design team (winners of the EcoCAR design competition).

KBR, Inc.

Associate Technical Professional-Instrumentation & Controls

September 2013 - February 2014 (6 months)

Leatherhead, London

Design of Instrumentation and Control Systems on a large natural gas platform project.

iLabs@MAK Research Project

Team Leader

July 2011 - September 2012 (1 year 3 months)

Kampala

In collaboration with the Massachusetts Institute of Technology (MIT), I led a team of 20 students in designing online real-time control laboratory experiments for University Students.

I gave technical oversight to all our projects and was responsible for two major publications, one of which was published as a 'special focus paper'.

I also spearheaded the development of a robotics outreach division, to promote practical science and engineering in secondary schools across Uganda. Consequently, the first School's Robotics Challenge was held, attracting many current funders to the project.

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## Education

University of Sussex

Doctor of Philosophy (PhD), Engineering · (2015 - 2019)

The University of Manchester

Master of Science (MSc), Advanced Control & Systems  
Engineering · (2012 - 2013)

Makerere University

Bachelor of Science (BSc), Electrical Engineering · (2008 - 2012)