

Jacky Dadisa Kabera

Year 10 student | Robotics, 3D design, CNC, artificial intelligence and creative arts

CURRENT SCHOOL

Braeburn Schools, Nairobi

PREVIOUS SCHOOL

**Acorns International School,
Rwanda**

WHAT I ENJOY

Building robots, exploring new technology and making things that solve everyday problems.



JACKY PRESENTING AN AUTOMATIC SOLAR TRACKER AT FIRST LEGO LEAGUE

ACADEMIC SNAPSHOT

Cambridge Checkpoint

Acorns International School, Rwanda

CAMBRIDGE PRIMARY CHECKPOINT

May 2024

ACORNS INTERNATIONAL SCHOOL, RWANDA

42/50

English as a Second Language

Outstanding

44/50

Science

Outstanding

28/50

Mathematics

Good

CAMBRIDGE LOWER SECONDARY CHECKPOINT

May 2026

ACORNS INTERNATIONAL SCHOOL, RWANDA

47/50

English as a Second Language

Outstanding

32/50

Science

High

25/50

Mathematics

Good

SCHOOL REPORTS

Grade 7 & Grade 8

Acorns International School, Rwanda

GRADE 7 | 2024–25

<div>TERM 1</div> <div>Subject highlights</div> <div>End-of-term report. Ikinyarwanda 100; Science 97; Creative Arts 96; Physical Education 96.</div>	<div>TERM 2</div> <div>80% A</div> <div>Midterm report. ICT 97; Ikinyarwanda 97; Music 93; Creative Arts 83.</div>	<div>TERM 3</div> <div>Subject highlights</div> <div>Science 94; Creative Arts 95; Ikinyarwanda 100; ICT 87.</div>
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GRADE 8 | 2025–26

<div>TERM 1</div> <div>Subject highlights</div> <div>Ikinyarwanda 100; ICT 92; Creative Arts 87; Physical Education 82.</div>	<div>TERM 2</div> <div>74% B</div> <div>Science 90; English 85; Ikinyarwanda 92.</div>	<div>TERM 3</div> <div>79% B</div> <div>Creative Arts 99; English 85; ICT 84; Science 85.</div>
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LEARNING & EXPERIENCE

Learning by doing

Robotics, 3D design, CNC, teaching assistance, competition work, coding and AI.

2021

T² Robotics

EV3 robotics, simple machines, drone navigation, robot design, programming and sensing. Earned Early Engineering I and II and Intermediate Robotics certificates.

2021–22

3D design, printing & CNC

Learned Tinkercad 3D design and how to operate 3D printers and CNC machines. Enjoyed designing crafts that these machines could make and explored recycled plastic filament for 3D printing.

2021–22

Teacher's Assistant

Supported beginner robotics classes and two 2022 summer camp sessions, sharing skills from robotics training with younger learners.

2023

FIRST LEGO League

Worked on the Superpowered Challenge in Rwanda, including a solar tracker innovation project and a robot for competition missions. Earned a regional participation certificate.

2023–26

Playto Labs

Earned six RoboCap League awards through assessment tests in 2024–25: White, Yellow, Orange, Green, Red and Blue. Completed Robotics Master 50 Classes in September 2026.

2026

iD Tech Camps at Rice University

Completed Artificial Intelligence and Machine Learning on July 31, 2026. Practiced Python coding and made a timed drawing game with a teammate.

CREATIVITY & INNOVATION

Projects & ideas

Work in education, healthcare robotics and renewable energy.

AI & EDUCATION

Mbaza

“Ask” in Kinyarwanda

I started Mbaza to explore how AI could help students in Rwanda find learning resources. I was thinking about classrooms where several students share one textbook. I want learners to be able to ask questions and find curriculum resources more easily.

MBAZA.AI



HEALTHCARE ROBOTICS

Helping nurses care for patients

In 2021, I drew a robot concept to help nurses care for patients during COVID-19 and presented it in robotics class.



FIRST LEGO LEAGUE

Automatic solar tracker

Our team used LEGO motors, a light sensor and a solar panel to demonstrate automatic tracking. We also built and programmed a robot for FLL missions.

CREATIVITY & INNOVATION

Coding & exploration

A Python project completed during the iD Tech AI and Machine Learning course.

PYTHON & MACHINE LEARNING

Drawing game versus AI

At iD Tech Camps, I worked with a teammate on a game where players draw a prompt before time runs out and AI tries to guess it. We made easy, medium and hard levels with different time limits.

My instructor noted my progress in Python coding during the course.

COMPLETED JULY 31, 2026 | RICE UNIVERSITY



ROBOTIC ARM DEMONSTRATION

Eva robotic arm

I demonstrated an Eva robotic arm during a STEM activity.



CERTIFICATES & AWARDS

Certificates

Robotics, coding and competition milestones.



FIRST LEGO League

Regional participation · 2023



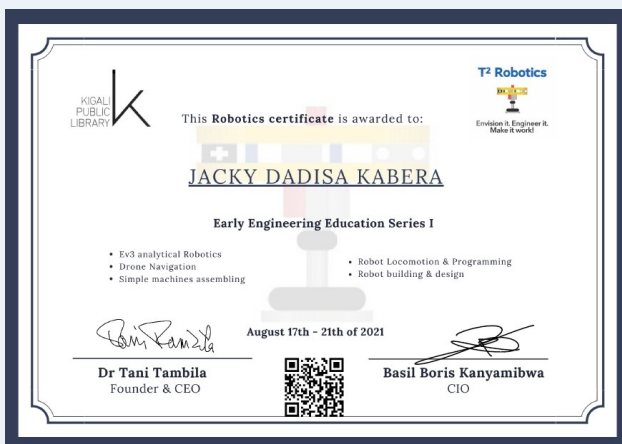
Robotics Master 50 Classes

Playto Labs · 2026



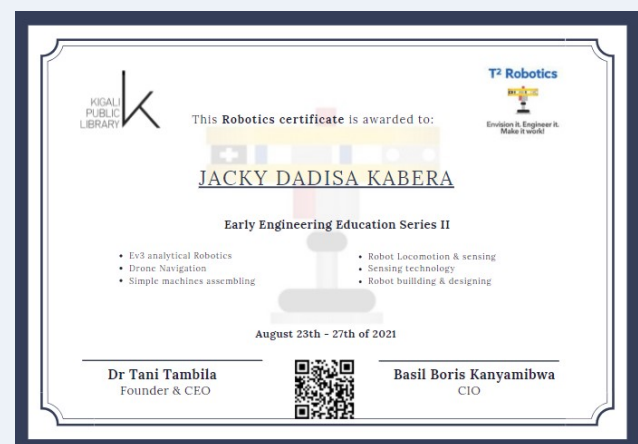
AI and Machine Learning

iD Tech Camps · 2026



Early Engineering I

T² Robotics · 2021



Early Engineering II

T² Robotics · 2021

PLAYTO LABS

RoboCap League

Awards earned through RoboCap Assessment Tests.




This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **14th Feb 2024** and has secured the **WHITE CAP** in the RoboCap League.












Pavan Kumar P
Founder & CEO, Playto Labs

PLAYTO LABS

White Cap

RoboCap League

RoboCap Assessment Test (RCAT)

14 FEBRUARY 2024




This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **20th April 2024** and has secured the **Yellow Cap** in the RoboCap League.












Pavan Kumar P
Founder & CEO, Playto Labs

PLAYTO LABS

Yellow Cap

RoboCap League

RoboCap Assessment Test (RCAT)

20 APRIL 2024

PLAYTO LABS

RoboCap League

Awards earned through RoboCap Assessment Tests.



playto

This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **18 June 2024** and has secured the **Orange Cap** in the RoboCap League.



Introduction to Robotics: Enabling a student to understand the basic concepts of Robotics and its applications.



Can build a program to control a robot using a simple language like Scratch or Blockly.



Can build a program to control a robot using a more complex language like Python, Java, C++, etc.



Can build a program to control a robot using a more complex language like Python, Java, C++, etc. and also able to troubleshoot the program.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc. and also able to troubleshoot the program.



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Pavan Kumar P
Founder & CEO, Playto Labs



PLAYTO LABS

Orange Cap

RoboCap League

RoboCap Assessment Test (RCAT)

18 JUNE 2024



playto

This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **29th August 2024** and has secured the **GREEN CAP** in the RoboCap League.



Introduction to Robotics: Enabling a student to understand the basic concepts of Robotics and its applications.



Can build a program to control a robot using a simple language like Scratch or Blockly.



Can build a program to control a robot using a more complex language like Python, Java, C++, etc.



Can build a program to control a robot using a more complex language like Python, Java, C++, etc. and also able to troubleshoot the program.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc. and also able to troubleshoot the program.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc. and also able to troubleshoot the program.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc. and also able to troubleshoot the program.



Can build and program a robot to perform a task like line following, obstacle avoidance, etc. and also able to troubleshoot the program.



Pavan Kumar P
Founder & CEO, Playto Labs



PLAYTO LABS

Green Cap

RoboCap League

RoboCap Assessment Test (RCAT)

29 AUGUST 2024

STUDENT PORTFOLIO | 2026

09

PLAYTO LABS

RoboCap League

Awards earned through RoboCap Assessment Tests.



This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **25th June 2025** and has secured the **BLUE CAP** in the RoboCap League.




Pavan Kumar P
Founder & CEO, Playto Labs



PLAYTO LABS

Blue Cap

RoboCap League

RoboCap Assessment Test (RCAT)

25 JUNE 2025



This is to certify that

Jacky Dadisa Kabera

has demonstrated the required skills successfully in the RCAT (RoboCap Assessment Test) conducted on **30th May 2025** and has secured the **RED CAP** in the RoboCap League.




Pavan Kumar P
Founder & CEO, Playto Labs



PLAYTO LABS

Red Cap

RoboCap League

RoboCap Assessment Test (RCAT)

30 MAY 2025

CERTIFICATES & AWARDS

Robotics training

My T² Robotics and Teacher's Assistant certificates.



Intermediate Robotics

T² Robotics · 2021



Beginner Robotics TA I

T² Robotics · 2021–22



Beginner Robotics TA II

T² Robotics · 2022



Summer Camp TA / Session I

T² Robotics · August 2022



Summer Camp TA / Session II

T² Robotics · August 2022

OTHER INTERESTS

Outside the classroom

Creative arts, sport, traditional dance and community life.

CREATIVE ARTS

Arts and crafts are among my interests. I scored 99/100 in Grade 8 Term 3 Creative Arts.

SPORT

I enjoy football, swimming and tennis. My swimming performance at school was rated Secure.

TRADITIONAL DANCE

I enjoy traditional dance and participating in church worship.

WORKING WITH OTHERS

I enjoy working with classmates and taking part in group activities.