

Nikita Greenidge

Biomedical (Mechanical) Engineer

EDUCATION

UNIVERSITY OF LEEDS, UK

PhD Surgical Robotics

Magnetically manipulated robotic endoscopes

2021 - Current

UNIVERSITY OF SURREY, UK

BSc Biomedical/Medical Engineering

First class honours; GPA: 4.25/4.25

2016 - 2019

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Exchange year

2017 - 2018

SIR ARTHUR LEWIS COMMUNITY COLLEGE

CAPE (A-level equivalent): Physics, Pure Mathematics, Chemistry, Communication Studies - 4A*s

2014 - 2016

PERSONAL PROFILE

Having grown up in the small Caribbean island of St. Lucia, it is my mission to revolutionise the STEM industry in the developing world and to inspire the next generation to get involved! I am continuously looking for new ways to achieve this. At the moment, I am involved in robotic endoscopy research at the Science and Technology of Robotics in Medicine (STORM) Lab, University of Leeds. My research is focused on incorporating advanced sensing modalities such as micro ultrasound into magnetically manipulated robotic capsules for colorectal cancer diagnosis. The main aims of this research are to reduce the discomfort caused by conventional endoscopes and to introduce the ability to perform virtual biopsies, leading to time and cost savings for healthcare systems.

AWARDS

- EPSRC Doctoral Training Partnership Studentship (2021)
- 1st place at the IBM Dynamo Challenge (2018)
- 2nd place at Inventor Prize Competition with UroLogic (2018)
- Surrey Merit Scholarship (2016)
- Saint Lucia Island Scholarship Award (2016) [Top two performers in CAPE (A-level) exams]

WORK EXPERIENCE

SYNBIOSYS / IMPERIAL COLLEGE LONDON

Mechanical Design Engineer and Visiting Researcher

- Counter-drone technology development
- Materials innovation
- Business development and grant writing

October 2019 - Current

UNIVERSITY OF OXFORD / 3B'S

Academic Researcher

- Developed a mathematical model to predict the swelling and degradation of biodegradable ureteral stents

June 2019 - October 2019

UROLOGIC

Product and Business Development Associate

- Responsible for a wide range of activities relating to medical device development and entrepreneurship within the fast-paced MedTech startup

August 2018 - November 2018

VOLUNTEER EXPERIENCE

2020: Organised/ran a MATLAB Introductory Course at St. Joseph's Convent Secondary School (St. Lucia).

2019: Team Surrey Volleyball Charity & Fundraising Officer.

PUBLICATIONS/PATENTS

- Apparatus and methods for disabling aerial vehicles (co-inventor)
- A vehicle arrest device (co-inventor)

TECHNICAL SKILLS

CAD	<div></div>
Python	<div></div>
MATLAB	<div></div>
Blender	<div></div>
Web design	<div></div>

CONTACT

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REFERENCES

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