Kojo Nyamekye Anyinam-Boateng

Educator, Robotics and Software Engineer from Centrale Nantes (MSc) interested in Formula 1, UAVs(Drones) and Sustainable Developement

Competent in C++, C, Python, ROS, ROS2, Linux, PX4 Autopilot, Fusion 360, QT, Docker, Tensorflow, OpenCV, Git, NumPy, ViSP and PHP

PROFESSIONAL EXPERIENCE

Robotics Research Engineer – CNRS-LS2N, ARMEN Team
Nantes, France (April 2023 – Present)
- Researching and developing control mobility and efficient communications in a decentralised swarm of UAVs (drones).
- Researching and developing control and localization algorithms for low-energy deep neural networks for UAVs (drones) using Field Programmable Gate Arrays for search and rescue missions.
  - Developing my skills in ROS2, Gazebo, C++, Python, PX4 Autopilot, Linux, Jenkins, Fusion 360, OpenCV, Git, Overleaf, Research Methods, Academic Writing, Teamwork and Project Management

Robotics Program Faculty – Ashesi Innovation Experience
Eastern Region, Ghana (July – August 2023)
- Taught robotics fundamentals to 32 high school students.
- Designed and built a miniature version of the Ghana Tema Harbour as part of the final challenge using Lego Mindstorms EV3 and Pi 4.
  - Developed my skills in Python, MQTT, Git, Photoshop, Illustrator, Robot Design, Decision Making, Teaching, Communication and Leadership.

Software Engineer – Ausy (Consultant to Amadeus, SIR Team)
Nice, France (August 2022 – February 2023)
- Developed APIs to ensure job templates are correctly generated.
- Developed and maintained tools that ensure the financial flow is working correctly with respect to Online and Offline Reporting.
  - Developed my skills in C++, Python, Linux, SAFe, Teamwork, Communication, Curiosity and Time Management.
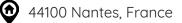
Robotics Engineer(Masters Thesis) – LS2N, ARMEN Team
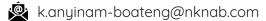Nantes, France (February – August 2021)
- Developed an automatic UAV(drone) dataset generation algorithm using motion capture and onboard cameras.
- Developed an architecture that could run in real-time on a raspberry pi 4 coupled with a google coral board to detect UAVs.
  - Developed my skills in Linux, Fusion 360, OpenCV, NumPy, Python, PX4 Autopilot, TensorFlow, C++, ROS, Git, Problem Solving, Time Management, Presentation and being Curious.

EDUCATION

C++ Software Engineer – AJC Formation
Paris, France (April – July 2022)

MSc. Advanced Robotics – École Centrale de Nantes
Nantes, France (September 2019 – December 2021)

Foundation Masters in Signals, Control and Robotics – École Centrale de Nantes
Nantes, France (September 2018 – May 2019)

BSc. Computer Science – Ashesi University
Eastern Region, Ghana (September 2014 – June 2018)

CONTACT

- 44100 Nantes, France
- k.anyinam-boateng@nknab.com
- www.nknab.com
- www.github.com/nknab

LANGUAGES

English – Native
French – DELF B1

CERTIFICATES

Computer Vision Nano Degree – Udacity
(November 2020 – February 2021)

Neural Networks and Deep Learning – Cousera
(October 2020)

VOLUNTEER WORK

Tutor – AIR2
Nantes, France (May 2023 - Present)
- Tutor teenagers in robotics to help them participate in the First Lego League (FLL).

Tutor & Challenge Designer – Ghana Robotics Academy Foundation (GRAF)
Accra, Ghana (August 2014 - Present)
- Designed the 2019 - 2022 national competition challenges.

Judge – World Robot Olympiad
Dortmund,Germany (November 2022)
- Judged the RoboSports Category.

INTERESTS

Drones · Formula 1 & E · Tennis
Video Games · Swimming · Chess