Shadrack Agyei Nti

shadrack.nti@ashesi.edu.gh | linkedin.com/in/shadracknti | github.com/ShadrackAgyei

EDUCATION

Ashesi University

Berekusu, Ghana

Bachelor of Science in Computer Engineering

Sep 2022 - Jun 2026

• Relevant Coursework: Object Oriented Programming, Computer Programming for Engineering, Foundations of Design Thinking, Multivariable Calculus & Linear Algebra, Discrete Structures & Theory

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Flutter/Dart, Latex

Worked with: Figma, VS Code, Android Studio, PyCharm, IntelliJ, Notion, MatLab, Solidworks, Turtle

EXPERIENCE

Computer Programming Tutor

Jan 2024 – Present

 $A shesi \ University \qquad \qquad A ccra, \ Ghana \cdot Remote$

Provide tutoring for 20+ students for the course Introduction to Computing Programming (in Python).
Helped students build problem-solving skills by breaking down complex programming problems into manageable steps and encouraging them to think critically about problem-solving approaches.

Engineering Coach, Ashesi Innovation Experience

Jul 2023 - August 2023

Ashesi University

Accra, Ghana · On Site

- Coached high school students in engineering design, emphasizing the importance of the design cycle and prototyping leading to the creation of a functional conveyor belt system.
- Guided 20+ students through C coding in Arduino, taught them to debug code increasing their efficiency in coding C enabling them to code for the maneuverability of the conveyor system in 2 days
- Broke down the process of laser cutting and 3D printing into easily understandable chunks which enable over 15+ students 3D print and laser cut in the same day.

Public Relations and Communications Intern

Jul 2023 - August 2023

UniGhana

 $Accra, Ghana \cdot Hybrid$

- Handled outreach engagements by planning visits to senior high schools ensuring timely delivery and minimizing costs.
- Created visually appealing posters and flyers in addition to managing socials leading to a 100% increase in follower count, increased engagement across all socials, and a 100% turnout rate for events.

PROJECTS

$\underline{\mathbf{NASA\ Mars\ Perseverance\ Rover}}\ \mid\ C,\ C++,\ MIT\ App\ Inventor,\ GitHub$

Apr 2023 - May 2023

- * Designed and implemented custom navigation algorithms in a team of five (using C/C++) for a Mars Rover model, achieving 90% obstacle avoidance accuracy, focusing on software efficiency and algorithm precision.
- * Enhanced sensor data processing and integration, leading to a 30% faster response time by refining algorithms and leveraging Arduino libraries for efficient sensor utilization.
- * Utilized MIT App Inventor to develop a mobile app for the Mars Rover's remote control, enabling precise navigation and operational commands via Bluetooth, enhancing the rover's real-time feedback and control capabilities.

<u>Ludo Game</u> | Python

Nov 2023 - Dec 2023

- * Designed and implemented custom navigation algorithms in a team of five (using C/C++) for a Mars Rover model, achieving 90% obstacle avoidance accuracy, focusing on software efficiency and algorithm precision.
- * Implemented object-oriented programming concepts to model game entities and behaviours, using classes for player representation and game state management, enhancing code modularity and readability

EXTRACURRICULAR

Outreach Committee Member, Ashesi Student CouncilJan 2024 – PresentPresident, Ashesi Chess AssociationJan 2024 – PresentLibrary Assistant, Office of Student Life and EngagementSep 2023 – Dec 2023