

Prince Steven Annor

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EDUCATION

New York University Abu Dhabi, Abu Dhabi, UAE

May 2020

Bachelor of Science, Computer Engineering, GPA 3.6/4.0

LEADERSHIP & COMMUNITY INVOLVEMENT

Mobile Print Project, Abu Dhabi, UAE

September 2016-May 2019

Mobile Print Developer and Administrator

- Developed front-end of cloud printing setup and automatic printer sharing with Google Apps Script.
- Extended the Cloud Print Connector with G Suite Education Cloud Printing to provide NYUAD students with smartphone printing capability compatible with NYU network printing system.
- Built and managed dedicated print servers and programmed Linux back-end applications for server data transfer.
- Developed mail delivery system, Mobile Print Bot and documented first-time setup delivery manuals and service perks.
- Equipped two interns with skills in networking and programming to manage the Mobile Print Service.

UAE Space Hackathon, Dubai, UAE

January 2018-February 2018

Mars mission researcher and OBC software developer, Team NYUAD

- Won the UAE Space Hackathon 2018.
- Co-authored the research proposal for a nanosat experiment surveying atmospheric density and dust profiles in the lower atmosphere of Mars.
- Developed C++ OBC code for surveying atmospheric density and dust profiles on Mars.

WORK EXPERIENCE

New York University Abu Dhabi Campus Life, Abu Dhabi, UAE

November 2016-Present

Student Life Facilities Assistant

- Trained ten interns on Audio/Visual setup, sound mixing, lighting fixtures programming, video jockeying, facilities management and troubleshooting.
- Set up, mix live sound, program lighting fixtures, mix visuals for on-campus events of hundreds of attendees.
- Manage inventory of lighting, sound and computing equipment, debug and maintain facilities of Student Life.

New York University Abu Dhabi Residential Education, Abu Dhabi, UAE

August 2019-Present

Residential Assistant

- Foster a residential atmosphere of learning, growth, and accountability through goal-oriented programs, floor meetings and personal conversations among 30 residents and the larger university community.
- Film, edit and distribute engaging and insightful videos for the First Year Residential College Experience residents and other stakeholders.
- Design and maintain floor decorations, monthly floor bulletin board and programming Raspberry Pi media server for smart background music and door assistant for resident drop-bys.

Processing Foundation, New York, USA

March 2019-July 2019

Processing Foundation Fellow

- Launched and administered SuaCode Africa, Africa's first smartphone-based online coding course, to hundreds of students across Africa and the diaspora.
- Developed version 1.0 of AutoGrad, an automated grading system for giving students feedback on submissions in Processing and form/lead beta development team.
- Trained, mentored and oversaw facilitators to manage, grade and mentor students during SuaCode Africa.

NYU Steinhardt School of Culture, Education, and Human Development, New York, USA

Developer/technology services support

February 2019-June 2019

- Designed website assets and updated website as directed by client to introduce novel features and content.
- Troubleshooted and debugged existing WordPress website and provided technology services support.
- Researched and customized themes with CSS to meet client's requirements for Squarespace website.
- Transferred existing WordPress website to Squarespace and existing GoDaddy domain to Squarespace website.

RESEARCH EXPERIENCE

Robotics Laboratory, Abu Dhabi, UAE

May 2019-July 2019

Researcher

- Detected and identified fiducial markers with oCAM cameras and performed oCAM calibration with Charuco.
- Performed image operations (edge and corner detection) using OpenCV libraries.
- Performed relative bearing and distance measurements of fiducial markers using visual servoing with the Open Manipulator robot and the oCAM.
- Conducted experiments to validate the results from the Computer Vision system using a Vicon system.

Applied Interactive Multimedia (AIM) Research Group, Abu Dhabi, UAE

Researcher

December 2017-November 2018

- Co-authored IEEE International Symposium on Haptic Audio-Visual Environments and Games 2018 paper, 'The Role of Haptics in Digital Archaeology and Heritage Recording Processes'.
- Developed virtual reality museum exhibition in the Chai3D framework with haptic feedback.
- Developed networked photogrammetry setup for digitally capturing 3D archeological artifacts.
- Presented research poster to hundreds of guests at New York University Abu Dhabi Research Conference.

TEACHING AND MENTORING EXPERIENCE

Nsesa Foundation, Accra, Ghana

September 2017-September 2019

Executive - Nsesa Foundation, Project Lead - SuaCode

- Integrated Processing via smartphones and develop Processing sketches and curriculum to teach core programming concepts interactively to hundreds of students.
- Launched and administered triannual Suacode cohorts to hundreds of students across the African continent and diaspora.
- Developed Processing sketches, set-up and launched online Learning Management Systems for curriculum delivery to hundred students across the African continent in 2019.
- Trained, mentored and oversaw facilitators to grade and mentor students during SuaCode cohorts across the African continent and diaspora.

weSTEM High School conference, Abu Dhabi, UAE

November 2017-March 2018

Workshop organizer

- Organized workshop to teach 18 high school girls the fundamentals of computer programming with Processing.
- Trained seven facilitators to teach the fundamentals of software programming with Processing on mobile phones.
- Developed and deployed the Android servers used for teaching at the conference.

SKILLS

Languages: Twi, Native Fluency; English, Fluent; French, Intermediate; MS Arabic, Basic.

Computer: C, C++, C#, Java, JS, Processing, OpenCV, Robot Operating System, Electronics, p5js, Flask, UML, x86/MIPS assembly, VR Development, Computer Vision, Machine Learning, Data structures, Algorithms, Haptics development, Verilog, Google Apps Script, MySQL, HTML, CSS, Python, Android, MATLAB, Arduino, Networking: subnetting, DHCP, DNS, IPv4. VHDL, Robotics, Bash, Video conferencing, TensorFlow, Raspberry Pi, XML, Chai3D, Linux Administration, Unity, Sound mixing and Post Production, Photogrammetry, Database development and administration, DMX Programming, Advanced Video Editing, Resolume VJ, Event/Landscape Photography, Adobe Photoshop Lightroom, MS Excel.