Prince Steven Annor

PO Box 129 188, Abu Dhabi, UAE • +971 54 304 2559 • prince.annor@nyu.edu • linkedin.com/in/princesannor/ • https://princesannor.github.io/

EDUCATION

New York University Abu Dhabi, Abu Dhabi, UAE

May 2020

Bachelor of Science, Computer Engineering, GPA 3.6/4.0

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.

LEADERSHIP & COMMUNITY INVOLVEMENT

Mobile Print Project, Abu Dhabi, UAE

Mobile Print Developer and Administrator   September 2016-May 2019

- 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.
- Developed front-end of cloud printing setup and automatic printer sharing with Google Apps Script.
- 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

Mars missions researcher and OBC software developer, Team NYUAD   January 2018-February 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.
- Won the UAE Space Hackathon 2018.

WORK EXPERIENCE

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

Student Life Facilities Assistant   November 2016-Present

- 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

Residential Assistant   August 2019-Present

• 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

Processing Foundation Fellow   March 2019-July 2019

- 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.

TEACHING AND MENTORING EXPERIENCE

Nsesa Foundation, Accra, Ghana

Executive - Nsesa Foundation, Project Lead - SuaCode   September 2017-September 2019

• 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

Workshop organizer   November 2017-March 2018

- 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.