

AMLAKUYALEW

*Software developer, network & security System Engineer
/ Senior Standard flight control developer, researcher*

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SUMMARY

- It is me, Amlaku Yalew, and I hold a BSC degree in Computer and Electrical Engineering from Bahir Dar University.
- My professional experience journey showcases a diverse skill set includes roles and responsibilities as arranging from researcher to, Senior Embedded Avionics Software Engineer, standard flight control software developer, and Supervisor/sub-team leader, Cloud Seeding project, online payment system using UiPath RPA tool.
- As a supervisor/sub-team leader, I had demonstrated leadership and project management abilities.
- I had also contributed Cloud Seeding project such as design, remote controlling remote ignition and packaging in both hardware and software level
- I had contributed to projects involving on online payment system and has expertise in online transactions using UiPath RPA tool.
- My proficiency extends to working on online transactions system, leveraging tools like UiPath RPA. Overall, my experience reflects a combination of technical expertise and leadership in the Security and networking industry, IT, aerospace and aviation industry.
- QA engineer more than 4 years with manual and automated tools
- Experience in Networking, System Administration, Database Management and IT Support
- Install & maintain Local-area networks (LAN), Switch/Hubs, Router

Experience

Guidance Navigation and Control Researcher and Avionics system engineer

2018-02-22 to
2022-05-26

INSA

Addis Ababa, Ethiopia

As a researcher, Amlaku delved into cutting-edge domains, showcasing my curiosity and analytical skills. This phase of his career was marked by exploration and a commitment to staying at the forefront of technological advancements.

1. I was a rocket researcher dedicated to designing, developing, and testing rockets that harnessed the power of propulsion to conquer the vast expanse of space. My contributions encompass a diverse range of areas, including:

- Aerodynamics, Propulsion, Guidance Navigation and Control
- Testing and FCC (Flight computer control) & flight control system

2. I was a Missile Researcher and are at the forefront of developing and improving guided and unguided projectiles that serve various military and civilian applications. Their expertise encompasses:

- Aerodynamics, Propulsion, Guidance Navigation and Control
- Testing and FCC (Flight computer control) & flight control system
- Warhead Design

3. I was also an Embedded software engineers play a crucial role in designing, developing, testing, and my key role and responsibilities of Embedded Software Engineers:

- Requirements Analysis, Design, Maintenance, Testing & Debugging



STRENGTHS

➤ Talent in software development & network engineering through a blend of formal education, solve problem

ACHIEVEMENTS

➤ Develop flight control software (UAV, ROCKET), AVI Load balance, payment system, cloud seeding, network config

Develop automated tests, SDLC, react for E-commerce project, project management using react

SKILLS

- QA, Test automation. Test manual, Test planning, SDLC
- C/C++, Python, MySQL, MONGO DB, Redux, Next js, Tailwind, websocket
- Java/JavaScript, React js, angular
- | Firewall | Wireless | MPLS | BGP | OSPF with a CCNP | Network security Systems, VPN, WAN/LAN/VLAN, TCP/IP, Cryptography, experience in Networking, System Administration, Database Management and IT Support

LANGUAGES

- Amharic
- English

Language

Beginne

PASSIONS

➤ I am passionate about software development, network engineering, cybersecurity and exploring innovative technologies.

Embedded, network, ICT/IT and software engineer

2018-02-22 to 2022-05-26

- IT support and Training
- Designing & implementing software of embedded, network device, systems
- Assisted with deployment of various network devices and services, including SD-WAN, Load Balancers, routers, switches & firewalls IPS/IDS, Wireless LAN, VPN, MPLS, Radius, and MFA
- Performed network maintenance & system upgrades including service packs, patches, hot fixed and security configurations
- Monitored system resource utilization, trending, and capacity planning
- Designing, developing, coding, testing and debugging system software
- Analyzing and enhancing efficiency, stability of system resources
- Design, develop, code, test and debug system software, Review & embedded controls and communication systems for Aerospace products
- Interact with hardware suppliers and engineering tool providers to identify the best solutions for the most challenging applications
- I was responsible for documenting technology and results through patent applications, technical reports, and publications
- Expand my expertise staying current with advances in embedded system software to seek out new ideas and applications
- Collaborate in a team environment with colleagues across Research and Aerospace

Standard Flight Control Software

2022-05-27 up to now

Development Supervisor

- I brought my expertise to the aerospace and defense, aviation industry as a Standard Flight Control Software Developer, contributing to the development of critical software systems in the field. My role involved a deep understanding of flight control systems, Autopilot, Flight Computers, ground control station
- Building on My technical proficiency, I took on the role of a supervisor in the flight control software development domain. As a supervisor, I likely played a key role in overseeing the development team, ensuring adherence to quality standards, and fostering an environment conducive to innovation.
- I experience as a Supervisor in Standard Flight Control Software Development reflects a combination of technical leadership and project management skills. This is my career highlights my ability to guide a team in executing complex project.
- Provide solutions & proactive troubleshooting support to resolve complex issues.
- Enhanced the application feature to effectively fix bugs & optimize the overall Performance, reliability and efficiency.
- I integrated standard flight control system to encompasses various components and functions to ensure safe, controlled, & efficient operation of our products. Because the primary objective of an FCS is to stabilize the aircraft in flight, maintain the desired flight path, and execute maneuvers as commanded by the pilot:
- The Core Components of an FCS:
 - Sensors
 - Autopilot
 - Actuators
 - Flight Computers and Flight Control Units
- Overall, my journey as a Standard Flight Control Software Development Supervisor showcases my growth from a hands-on developer to a leadership role, where I contributed significantly to the advancement of critical software systems in aviation
- Implement software's after haven Embedded programming languages like C, C++, and Assembly, adhering to coding standards, Software Design and best practices.
- I implement the software design, translating the specifications into functional code.

EDUCATION

B.Sc. Degree in Computer and Electrical Engineering

2013-2017

Graduated from Bahir Dar University, Addis Ababa (Ethiopia) bduinfo@bdu.edu.et

- My name is Amlaku Yalew, and I hold a BSC degree in Computer and Electrical Engineering from Bahir Dar University. My academic foundation provides a robust knowledge base for his subsequent professional endeavors.
 - Microcontroller Based DC Motor Speed & direction Control Using PWM Technique
 - Thesis title: Microcontroller Based Design and Simulation of High and low cut-off/on system

GPA: 3.38 / 4

Internship program in Industry (Dasheen brewery share company) 13/02/2016–30/07/2016

Gondar, Addis Ababa (Ethiopia) www.dashenbeer.com.et

- Maintains and repairs electrical robotic systems & Automation
- Controlling system especially robotics (PLC) system machines
- Maintaining sensors if there's something error for machine

M.Sc. Degree in Cybersecurity

- In progress up to now

Studying from Addis Ababa university, Addis Ababa, Ethiopia

Feb 11, 2021

Amlaku Yalew Fetene

has successfully completed

Introduction to the Internet of Things and Embedded Systems

an online non-credit course authorized by University of California, Irvine and offered through Coursera


Ian Harris
Professor
Department of Computer Science

COURSE
CERTIFICATE



Verify at coursera.org/verify/KYQWZF25HLR9
Coursera has confirmed the identity of this individual and their participation in the course.

13-Jun-2023

Amlaku Yalew Fetene

has successfully completed

Introduction to Front-End Development

an online non-credit course authorized by Meta and offered through Coursera

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/3RMKMOBKTR8>
Coursera has confirmed the identity of this individual and their participation in the course.

Jan 21, 2023

Amlaku Yalew Fetene

has successfully completed

Embedded Software and Hardware Architecture

an online non-credit course authorized by University of Colorado Boulder and offered through Coursera


Alex Fendick
Instructor
Electrical, Computer, and Energy Engineering

COURSE
CERTIFICATE



Verify at coursera.org/verify/UPNB2CW9L54D
Coursera has confirmed the identity of this individual and their participation in the course.