Biruke Abraha

SOFTWARE DEVELOPER | (MSC) ELECTRONIC ENGINEER ·

Addis Ababa, ET

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Objective: *To have my skills and ethics challenged on a daily basis.*

Education

ALX Africa   *Addis Ababa, Ethiopia*

DATA SCIENCE   *May,2023-Present*

FH Joanneum University of Applied Science   *Kapfenberg, Austria*

MSC IN ELECTRONIC ENGINEERING   *Oct,2013-May,2016*

Addis Ababa University Faculty of Technology   *Addis Ababa, Ethiopia*

BSC OF ELECTRICAL AND COMPUTER ENGINEERING   *Sept,2005-July,2009*

Master Thesis

Virtual Vehicle Research Center mBH   *Graz, Austria*

THERMAL CONTROLLER FOR AN ELECTRIC VEHICLE   *Aug,2015–May,2016*

Supervisor   Univ.-Doz, DI, Dr. techn. Bernhard Brandstätter

- Model based analysis and development of a thermal controller for the heating and cooling circuit of the powertrain and HVAC system of the passenger cabin of an electric vehicle prototype. Implementation of further multi-objective (global) optimization strategies to explore possible optimal criteria within the context of the power consumption of the electric motor, power consumption of the thermal controller circuit components and the temperature of the passenger cabin.

Experience

brosfe   *Addis Ababa, Ethiopia*

SOFTWARE DEVELOPMENT   *MAy,2023–present*

- Web design, app design, office software solutions, and AI consultancy at my own freelance company brosfe.
- Click here or visit www.brosfe.com to see more.

NXP Semiconductors Austria GmbH & Co KG, contractor   *Graz, Austria*

NFC RF SYSTEM ENGINEER   *Oct,2019–May,2021*

- NFC(Near-Field-Communication) chip validation, debugging and reporting for the mobile technology market.
- PCB board preparation, component soldering, doing first hand electrical and mechanical tests
- Matching circuit design and buildup
- Basic NFC chip bring-up tests execution according to industry standards
- Handle complete NFC chip validation tasks and preparing report
- Plan and execution of debugging tasks(analog signal, digital signal, Firmware)
- Cooperate with teams on various topics (eg. managing, internal hardware and firmware tool)
- Prepare detailed analysis and report of results
- Presentation of results and report
- In addition,
- Adapt and optimize measurement strategies
- Python scripts for automated reports

AB Mikroelektronik GmbH *Salzburg, Austria*

Development Engineer *Dec,2016–Dec,2018*

- Schematic design, Hardware design, build and development of A-samples of various LED technologies for vehicles. This includes turn indicators,foglamp, day running light,and position light
- Prototype build of A sample products
- Electrical testing of company LED products according to automotive standards including creation of test reports
- ESD testing according to automotive standards including the creation of test reports
- Thermal measurements with thermocouple sensors and thermography camera
- Validation testing and reports
- Cooperating with various teams within and outside the company

Addis Ababa Land Development Management Construction Permit *Addis Ababa, Ethiopia*

Construction Issuance Senior Officer *Jan,2010–Oct,2013*

- Provide land/house owner info and permits for building construction as per city roadmap.
- Analyze electrical installation designs, advise on adaptations, and approve permits with a team
- Conduct construction site visits, collaborate in teams for smooth workflow, and report challenges in team meetings

Computer/Tech skills

Advanced	Python Matlab/Simulink SQL Power BI JavaScript React JS Express JS Figma Gannt JS HTML CSS LabVIEW Multi-objective Optimization Ms Office AUTOCAD
Intermediate	Linux Angular JS ALTIUM C/C++ CAN and I2C communication Adobe Photoshop
Basic	java

Languages

English	Fluent
Amharic	Mother tongue
Tigrigna	Advanced
Deutsch	Medium(Level B1)

Nationality, Relocation & Residency

Nationality	Ethiopian
Residency	Addis Ababa
Willingness to relocate	Yes

Interests

- Tech
- Multi-Culture experience
- Challenging topics
- Events
- Music
- Running
- Football
- Socializing

Extracurricular Activity

European Forum Alpbach *Tyrol, Austria*

Participant *August 13, 2014 - August 29, 2014*

- Gained various interdisciplinary ideas, views and perspectives from renowned speakers and participants
- Contributed into the event through expressing my opinions on various topics raised during discussions.

ADDIS TEENCODE HACKATHON: LEARN, CODE, INNOVATE

Contributor

- Gave participating students a one day React JS code training
- Assisted students with code and integration challenges on the day of their code competition.

Portfolio

Portfolio: https://brukgit.github.io/portfolio-datascience/

Contact Me

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