SHIMELIS ADUGNA, ARARA
Avionics System Engineer

CONTACT

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SKILL

- Troubleshooting Avionics System for B777, B767, B737NG/Max, B787, A350 and Q400 aircraft
- AD, SB, STC, SIL, FTD & MT Evaluation
- Technical Support for Line & Base
- Managing EIS & redelivery projects
- Collaboration with OEM, EO Issuance
- Software & Hardwar Config Control
- Modification Project leadership
- FDR and CVR data Analysis
- Incident & Accident Investigation
- Proficiency with Software Tools: Maintenix, GBST, ADRAS@32, L3-Com ROSE, MAGS, eProg SW, Jeppesen CAT, Airbus GAS & LSBM, AGS SAR Reader, GPT, ORT, CSCT, etc.

EDUCATION

- **Sept 2008 – Sept 2009**
  Diploma A/C Avionics Technician
  Ethiopian AMT School, Ethiopia
  - Ranked Top of the Class
- **Sept 2001 – Jun 2006**
  B.Sc. Electrical Engineering
  Bahir Dar University, Ethiopia

TRAINING

- Level III Aircraft System Course for B767, B777 & B787
- B777/B787 ECL preparation on GBST
- Weight & Balance training by Boeing
- Certification Specification 25 (CS-25)
- PBN II Training by IATA
- AHM Training by Boeing
- Insight QAR/FDR Data analysis Tool
- A350 Electrical Wiring Interconnection
- Insight Analysis, A350 GAS Tool, ACMS GPT & AGS SAR Reader

LANGUAGES

- Oromic and Amharic: Native
- English: Fluent

HOBBIES

- Chess, soccer, film

PROFESSIONAL SUMMARY

With over a decade of experience at Ethiopian Airlines, I excel in evaluation of AD, SB, STC, SL, FTD, issuing Engineering Orders and enhancing product reliability. I provide technical support for line and base maintenance, and lead fleet-wide modification projects. As the Avionics B777 Fleet focal, I oversee emerging issues, ensure SB compliance, manage LSAP configurations, and collaborate with OEMs. Conducting critical investigations using FDR data & CVR audio analysis. My proficiency with various software tools and strategic technical analysis enables me to effectively handle complex aviation challenges.

EXPERIENCE

Senior Avionics System Engineer | Jan 2010 to Jun 2023
Ethiopian Airlines | Addis Ababa, Ethiopia

- Evaluation of AD and OEM publications (SB, SL, SIL, MT, FTD, SIL, TFU)
- Issuing EO for product and/or reliability improvement modifications
- Monitoring fleet-wide reliability and conducting RCCA for avionics ATAs
- Providing technical support for line and base maintenance operations
- Managing software and hardware configuration on Maintenix
- Leading major fleet-wide modifications, EIS and redelivery projects
- FDR data and CVR audio analysis for incident/accident investigations
- Avionics system troubleshooting for B777, 787, 767, 737, A350 & Q400
- Implementation and maintenance of aircraft connectivity solutions
- Defining aircraft technical specification and selection of vendors
- A/C Technical specification preparation and fleet standardization
- Communication with regulatory agencies, OEM and service providers
- Fleet and Avionics LRU evaluation and selection

Associate Avionics Technician | Sep 2009 to Jan 2010
Ethiopian Airlines | Addis Ababa, Ethiopia

- Collaborated with other technicians for complex repairs & installations
- Fault identification using detailed schematics and WDM
- Repair discrepancies by repairing/replacing defective parts of avionics LRU

Junior Electrical Engineer I | Jun 2007 to Sep 2008
Ethiopian Electric Power Corporation | Addis Ababa, Ethiopia

- Site supervisor for construction of substations & power transmission lines
- Test of finished substations and power transmission lines
- Contract preparation/evaluation of substation & transmission line projects

Electrical Engineer | Nov 2006 to May 2007
Zuqualla Steel Rolling Mill Enterprise | Debre Zeyit, Ethiopia

- Determining man-hour & material cost for repair of electrical parts
- Preparing specification of tools and materials required for repair
- Monitoring power consumption of each mill and suggest best practice

AWARDS

- Two times Ethiopian Airlines Best Employee of the year (2014 & 2017)
- Ranked #1 in Aviation School Class 89

REFERENCES

- **Andamlak Alemu**, System Engineer | American Airline
- **Mehari Goitom,** System Engineer | UPS Airline