

If you are looking for a highly experienced, dynamic and self-steamed **Electrical / Avionics Design Engineer** (ECAD, E3D modelling and ECAD support), I can be the most resourceful candidate to fulfil your requirements and highly appreciate the opportunity to discuss your objectives and challenges.

My experience and qualification truly come from aerospace background and cover the wide range of aerospace design - **Electrical / Avionics Design** (System Integration & Modification) covering Fast Jets (Attack and Advanced Trainer) and civil / military (fixed and rotary wing) aircrafts.

Ability to manage large scale projects, consistently delivering these engagements within time and budget constraints, and solid track recording are my main skills.

## **Main Goals and Assets**

- Knowledge of **EASA Part 21J** and **MAA DAOS** requirements.
- Aerospace design requirements **EASA CS23/CS25/CS27/CS29** and **UK DEF STAN**.
- Major avionics system upgrades: **Garmin, Thales, Sandel, Avidyne, Honeywell, Telemetry, SATCOM**
- Engine Indicating and Crew Alerting (**EICAS/EIDS**) system integration.
- Successfully led **B747-8i VVIP** and **Airbus 330/320** Electrical / Avionics / IFE (Interior) projects.
- Knowledge of conceptual design and aerospace electrical manufacturing process.
- ELA, EMC/HIRF documentation. Review of equipment approval TSO / ETSO.
- Equipment **Test Schedules** and **Software Management**.
- **ECAD** (Autodesk Electrical 2008-2017) support and reconfiguration.
- Team player and strong communication skills.

## **Professional skills and competencies**

### **A. ECAD:** Schematics / Wiring diagram and Harness Design.

- Autodesk Electrical 2008 - 2017 – **Expert user** (ECAD support and reconfiguration)
- Zuken E3 Series 2015 - Full user
- VeSys Electrical, Promis-E, Harnware and Solidworks Electrical
- Teamcenter PLM system

### **B. CAD:** 3D / E3D modelling, electrical workbench (EWB), harness design and express routing.

- Solid Edge V20 - ST7 – **Expert user** 15000+ hours
- CATIA V5 - user
- Autodesk Inventor - user
- SolidWorks – user

### **C. System Knowledge** - worked on various design (modification / integration) and other projects

#### • **Aircrafts**

Fast Jet (Attack and Advanced Trainer) - Dassault / Dornier Alpha Jet, B747-8i (VVIP), B737, Airbus 330/320/319/318, Fokker 100, SAAB340, Dornier 228, Chinook, Lynx Mk 8, Gazelle, Bell406, Puma, Kingair 200/300, Piper PA28, Gruman, Cessna F406, Diamond DA40/42.

#### • **Engines**

Rolls Roys, General Electrics (CT7), Garret TPE331, Pratt & Whitney (PT6) and TAE 125-02.

### **D. Familiar with the following vital documents:**

- RTCA DO160, TSO, STC, CP, CAP 562/747, CAIP, MAA CAE 4000-MAP-02,
- Airbus Airframe and Electrical Installation Requirements.
- Boeing D6-551331 Rev G - Electrical Design and Installation Requirements.
- Boeing D415U008 - Standard Interface and Design Requirements.
- Boeing D6-54446 - Standard Wiring Practices Manual.

### **E. Professional Engineering Accreditation**

- **EngTech, AMRAeS** Engineering Council of the UK. CPD working towards **Chartered Engineer**.

# Ramesh Kambang

Avionics/Electrical (System Integration) Design Engineer + (UK) – 07727670877; <https://www.linkedin.com/in/rkambang>  
Experienced on E3D/EWB and ECAD (EASA21J & DAOS for CS23-29 A/C) E-mail: [ramesh\\_aerospace@yahoo.com](mailto:ramesh_aerospace@yahoo.com)

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3 Lilley Way, SL1 5UQ, Slough, Berkshire, UK

## **Experience and career development**

### **A. 2015 – to date: Gama Aviation, Fairoaks Airport, Woking, Surrey, UK**

#### **Electrical / Avionics Design Engineer and ECAD support / configuration**

CADs: Autodesk Electrical 2016 and Autodesk Inventor

- Major Avionics upgrades: Garmin (G500, G650, GTS800), Sandel SN3500, Honeywell, Avidyne, SATCOM, RAD ALT, Role Equipment etc.
- Major glass cockpit upgrades: Engine Indicating & Crew Alerting System (**EICAS/EIDS**) and Engine Monitoring System.
- Avionics / Electrical design for various MOD projects.
- Electrical Load Analysis (ELA). Compass Swing, equipment software management.
- Producing various test plans (PIP, SA, NVIS, EMC etc) and reports.
- Producing wiring diagrams, BOM, wire reports, termination / tooling report and harness design.
- Continued Airworthiness support. Checking drawings and documents.
- ECAD support and reconfiguration.

### **B. 2014 – 2015 (22 months) QinetiQ, Boscombe Down, Amesbury, Wilshire, United Kingdom**

#### **Electrical / Avionics Design Engineer (AEIG) and ECAD support / configuration engineer**

CADs: Autodesk Electrical 2014, Solidedge ST6 and Teamcenter PLM Integration system

- Flight Testing and Instrumentation (FTI) for Alpha Jet OLM and Gazelle aircrafts: producing schematic / wiring diagrams for Telemetry System, various strain gauges / potentiometers, GPS, VCO, Angle of Attack, Air Transducers, UHF radio integration and Topic 10 documentation.
- Electrical Load Calculation. Design Query supports.
- Producing Radio Test Schedule.

#### **ECAD configuration (Autodesk Electrical) – Time saving up to 49% (Design and checking process)**

- Designed **dynamic tools**: various TJMs, Switches, Connectors, LRUs, Bus Bars, Strain Gauges, multi-core cables (screen high, knitmesh, solder sleeve, daisy chain), loom numbering and EMC segregation.
- Developed various **reporting group files**: BOM report, Mass calculation, Component report, cable / harness reports, project drawing lists, wire number report, project x-ref checks, etc.
- Dynamic X-Referencing to multiple components specs, mechanical drawings and any other available design supporting documents. This significantly reduces hardware and system checking time.

### **C. 2006 – 2014 (except 2008-2010) AIM Aviation Henshalls, Byfleet, Surrey, United Kingdom**

#### **Electrical / Avionics Integration Design Engineer and Team Leader**

CAD - Solid Edge and CATIA V5. VVIP Aircraft - Boeing 747-8i and Airbus 330 /320 series.

- PDR and CDR review
- Electrical Load Analysis (ELA), System Safety Analysis (SSA) and EMC.
- System interconnection definition (EWIS) and safety analysis.
- Producing schematic / wiring diagrams design, E3D modelling and harness design and BOM.
- Engineering change order (CO), Service bulletins, Supplier modification (SM and NBM)
- Producing Electrical Design Procedures.
- Instruction for continued airworthiness and Maintenance manual supplement
- Electrical concept design: top level drawings for various interconnected systems.

### **D. 2008-2010 Mann Aviation Engineering, Fairoaks Airport, Woking, Surrey, UK**

#### **Avionics Engineer (company approval)**

Avionics System Installation, Integration and Modification Program - Lynx and Chinook helicopters.

- Major Avionics upgrades: **SATURN** installation / modification on aircraft **Lynx Mk 8**.
- VHF / UHF COM, HF, VHF NAV, GPS, INTERCOM (secure speech - Fibre Optics) installation / integration.
- SMS relocation. Doppler, BAR ALT, and CDNU installation.

# Ramesh Kambang

Avionics/Electrical (System Integration) Design Engineer + (UK) – 07727670877; <https://www.linkedin.com/in/rkambang>  
Experienced on E3D/EWB and ECAD (EASA21J & DAOS for CS23-29 A/C) E-mail: [ramesh\\_aerospace@yahoo.com](mailto:ramesh_aerospace@yahoo.com)

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- MES (Master Erase and Crypto Load Panel) system installation and integration.
- System integration with ACP, CCP, RCU, MTU, DCU
- TSDG, SIFF transponder installation and Functional Test.
- NVG, Survivability and lighting modification.
- CVR and AVSR installation and integration.
- Helicopter Asset Tracking System (**HeATS**) and **CDNU** shorting link - **Chinook** aircraft.

## E. 2006-2006 Cabair Maintenance Ltd, Elstree Borehamwood, United Kingdom

### Electrical / Avionics System Engineer

System Installation, Modification, Integration and Troubleshooting

- Maintenance, modification, integration and troubleshooting of aircrafts Diamond DA-40/42, Piper aircrafts (PA 28 series), Beechcrafts and Gulfstream aircrafts
- Installation of new engine indicating system and engine management system for TAE 125-02 engine.
- New electrical system installation on piper PA 28 aircrafts.
- Troubleshooting and system monitoring for the dispatch reliability in the company fleet
- Intercom installation, modification and integration on the various fleet of the company

## F. 1998 – 2006 Cosmic Air Pvt. Ltd.

- 1) 2005-2006 Sr. Avionics Licenced Engineer and Team Leader
- 2) 2002-2005 Avionics Licenced Engineer
- 3) 2000-2002 Jr. Avionics Licenced Engineer
- 4) 1998-2000 Apprentice Avionics Engineer

Aircraft Maintenance Certification, System modification, integration and troubleshooting.

- Maintenance, modification, integration and certification of Fokker 100, Dornier 228, and SAAB 340 aircrafts.
- HF, GPWS, GPS, EGPWS, ELT (204MHz) installation, modification and integration.
- Incorporation of various SBs: Engine fire warning system, engine starting system MODs.
- Engine ITT and Engine Torque calibration. Generator paralleling, functional test, adjustment as required.
- Compass swing for standby compass and directional gyro systems.
- Pitot Static leak test. Harness assembly, installation, modification and integration as required.
- Major components changes: flaps, landing gear, landing gear seal change, engine change.
- Major maintenance checks, such as C - checks of the company fleet.
- Dealing with the airworthiness issues including Ads, SBs, C of A / RML, test flight.

## Education

- Masters in Aerospace Engineering (Electrical / Avionics) with honours.

## Trainings

- **EASA Part 21 Subpart J**
- **Human Factors Training.**
- **Lynx Helicopters** Automatic Flight Control System.
- **AT 5-2 Technical ADS-B** – Thales System France.
- **Dornier 228** Electrics / Avionic - (ATA 104 Level III), JAR 147.
- **SAAB340** Airframe Systems.
- **SAAB340** Electrical Systems
- **SAAB340** Avionics Systems.
- **CT7 (GE) Engines.**
- **TU-154B2 (M)** Electrical and Flight Navigation Systems.

**British Citizen and Full UK driving licence.**