22-12-2025

Senior Avionics/ Hadware Engineer

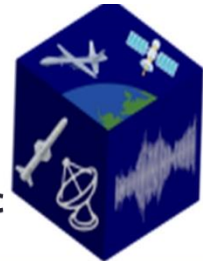**Integrated Navigational Terrestrial Electromagnetic Lab**

Mandatory Requirements

• BE/MS Electrical / Electronics / Mechatronics / Avionics with CGPA 3.0+

• 2-4 year relevant experience

• Experience with flight controllers, ardupilot, Pixhawk, mission planner and UAVs development

• Experience with 3D modelling software using Solidworks including solid and surface modelling, assembly and manufacture ready drawings

• Experience with integration of different sensors using various communication protocols (I2C, SPI, UART, CAN, etc)

• Expertise in developing microcontroller-based applications, including but not limited to Arduino, Raspberry Pi, etc

Preferred Requirements

• Experience developing avionics and sensor systems for UAVs including multi-rotors, fixed wings etc

• Expertise in PCB design software such as Proteus, EagleCAD, NI Multisim & Ultiboard

Experience designing and building integrated electronics systems to meet design specifications

• Knowledge of signal processing and DSP techniques

Job Responsibilities

• Designing and developing custom hardware and software

• Integrating avionics into custom UAVs

• Developing wiring harnesses, PDBs, and power distribution for different UAV types

• Configuring UAV flight parameters and fail-safes

• Creating LUA scripts for custom UAV behaviors

• Conducting flight tests for various UAVs

• Designing and manufacturing PCBs.

• Participating in development projects and support

• Modeling hardware components

JOIN US

Send your resume at: intell.ndt@gmail.com

With subject title "Senior Engineer-Avionics"

Please mention your qualification, experience & CGPA in resume

Job Location: NUST PNEC Karachi

Apply latest by 31 Dec 25

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (NUST PNEC)

UAV Pilot/ Avionics Engineer

Integrated Navigational Terrestrial Electromagnetic Lab

Mandatory Requirements

• BE/BS in Avionics, Electrical, Electronics, Mechatronics, Mechancical with CGPA ≥ 3.0

• 1–2 years real time UAV flying experience (multirotor & fixed-wing), manual and assisted modes

• Experience developing UAVs from component selection, integration, to flight testing and validation

• Strong knowledge of flight controllers, various sensors & actuators, mission planner, GCS software

• Experience with data links, RF & Wireless signal transmission systems

Preferred Requirements

• Experience integrating avionics and sensors on UAVs

• Proficient in PCB design tools (Proteus, EagleCAD, NI Multisim, Ultiboard)

• Experience designing and building integrated electronic systems

• Experience with 3D modelling using Solidworks including solid & surface modelling, assembly & manufacture ready drawings

• Familiar with rapid prototyping technologies

• Programming and scripting experience

• Strong attention to detail, teamwork skills, and eagerness to learn

• Willing to travel for field testing

Job Responsibilities

• Conduct flight test and trials of various UAVs including fixed-wing, multi-rotors and VTOLs

• Configure flight parameters, fail-safes and operating modes for UAVs

• Development of custom wiring harnesses, PDBs, power distribution rails, for various fixed wing, multi-rotors etc

• Design and integration of avionics systems for various custom UAVs

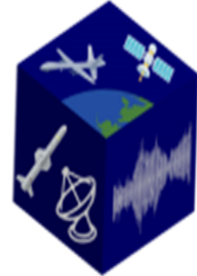• Design and modelling of hardware components

JOIN US

Send your resume at: intell.ndt@gmail.com

With subject title "UAV Pilot"

Please mention your qualification, experience & CGPA in resume

Job Location: NUST PNEC Karachi

Apply latest by 31 Dec 25

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY (NUST PNEC)