RF-CS-AV-02
Titan Pulse Dynamics Ltd
https://titanpulsedynamics.com
https://github.com/Titan-Pulse-Dynamics
https://www.linkedin.com/company/titan-pulse-dynamics/

Avionics Engineer - CubeSat Core Team (RF-CS-AV-02)

Titan Pulse Dynamics (TPD) is an ambitious space technology startup aiming to **lower the barriers to space** and redefine how satellites are designed, built, and operated.

Alongside our **engineering and consultancy services**, we are developing our own **modular CubeSat platform**, as well as **next-generation Intelligence & Orbital Compute Infrasctructure**.

The Opportunity

We are looking for an **Avionics Engineer** to join the CubeSat core team and help shape the avionics architecture of our first missions and the **ARISE** platform.

This is an **early-stage, high-impact role**. You won't simply be implementing an already-defined design - you'll have the opportunity to influence the architecture, engineering approach, interfaces and technologies that TPD will build upon for years to come.

We are particularly interested in engineers who can combine **hands-on technical expertise with system-level thinking** and who are comfortable working across subsystem boundaries.

What We're Looking For

Essential

- Degree or equivalent experience in **Electrical/Electronics Engineering, Avionics, Aerospace Engineering** or a related field
- Practical experience with electronics and/or avionics systems
- Understanding of spacecraft or complex embedded systems
- Ability to understand and work with system-level interfaces
- Strong problem-solving and troubleshooting skills
- Ability to work independently and take ownership of technical tasks
- Good technical documentation skills

Particularly valuable (Experience with one or more of):

- CubeSat or spacecraft avionics
- Power distribution / EPS / Analog electronics / OBC architectures
- CAN, RS-422/485, SpaceWire, Ethernet or other spacecraft data interfaces
- Embedded systems
- FPGA or microcontroller-based systems
- PCB design and review
- Altium, KiCad or similar tools
- Hardware-in-the-loop testing
- Mixed-signal design
- Signal Integrity
- EMC/EMI considerations
- Radiation effects / radiation-tolerant design
- Component selection, derating and reliability analysis
- AIT and spacecraft environmental testing
- COTS-based spacecraft development

You do not need to tick every box. We are more interested in strong engineering fundamentals, practical experience and the ability to learn and contribute across disciplines.

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Why Join TPD?

This is an opportunity to join **at the beginning of the journey** rather than after the architecture has already been decided.

You will have the opportunity to:

- Help design and build **real spacecraft from the ground up**
- Shape the avionics architecture of the **ARISE platform**
- Gain exposure to the complete satellite development lifecycle
- Help establish TPD's engineering processes, standards and technical heritage
- Work on progressively more advanced missions as the programme develops
- Contribute to technologies including **on-board AI and autonomous systems**
- Help develop a new space technology company and its products, rather than simply working on one project

What We Offer

- Opportunity to be part of an **early-stage, high-impact space program**
- Flexible engagement (**part-time or full-time**)
- **Remote-friendly** working environment
- International, multidisciplinary collaboration
- **Profit-sharing scheme** aligned with company growth
- The chance to help build **the first generation of CubeSat capability within TPD**

Who We're Looking For

We're particularly interested in people who are excited by the idea of:

Starting with a blank sheet of paper, building something real, learning from every corner, thinking out of the box and gradually turning those ideas & lessons into something tangible.

If you're looking for a highly agile environment where you can **wear multiple hats, challenge established approaches and help build something from the ground up**, we'd love to hear from you. And yes - there will be some of the classic chaos that comes with an early-stage startup ;-)

Interested? ✉️ Please exclusively apply through our secure form at:
https://titanpulsedynamics.com/careers/

https://nextcloud.titanpulsedynamics.com/apps/forms/s/Sm3LNMDQ2KcZ6ewFqmg8QJ7X