Please send all applications to kaila.conley-conversi@transparentsky.com

Electrical and/or Software Engineer

A new, exciting role has opened up in our Mechatronics Team! We are looking for an Electrical or Software engineer (a combination of both is ideal!) to take over work with integrating our WAMI systems with drones. The engineer will be responsible for the design and creation of power-boards and development of electronics for robotic systems.

Transparent Sky is a fast-paced R&D engineering startup working on the cutting-edge of WAMI (Wide-Area Motion Imaging systems) and is the ONLY company that produces live 3D maps of any area, doing so at a fraction of the cost of other systems. Using cutting-edge engineering and machine learning technology, its systems produce constantly self-calibrating and self-stitching images. This technology, on its drone-mounted WAMI systems, will be able to survey whole metropolitan areas, proving especially beneficial in military and government operations. With live 3D viewing of huge areas, Transparent Sky is going to completely redefine the nature of the ISR industry.

The technology we employ enables us to create systems which are uniquely affordable, light and precise. Transparent Sky WAMI systems can be mounted on planes, and smaller, lighter systems are being designed for transport on drones.

For more information on our systems, visit our website: https://transparentsky.com/

Must-Haves:*

***Remember, you do not need to fulfill 100% of the requirements in order to apply! We encourage anyone with a demonstrated passion for Electronic Engineering to apply.**

- **B.S. degree in Electrical or Computer Engineering**

- Hands on experience and can show experience with project examples (internship experience ok)
- Demonstrated understanding of electrical system concepts (circuit diagrams / Power, Voltage, and Current calculations / waveforms)
- Experience with Test Equipment (Multimeter, Oscilloscope, logic analyzer)
- Experience with implementing design requirements in electrical circuits
- Able to create electrical schematics and PCB layouts (Eagle CAD software, component layout, PCB manufacturing considerations)
- Ability to read datasheets and find cost-effective components to meet design requirements. Ordering components.
- **C and C++ Software/Firmware experience**. Software debugging tools, GDB, breakpoints, memory monitoring
- Experience with STM32 family of microcontrollers. Understand MCU hardware concepts such as Special Function Registers (SFRs), Clocks, Timers, ADC, UART, I2C, SPI
- Cabling and connectors
- Experience with DC motors, servos, BLDC motors
- **Strong math skills**

- Strong understanding of rotational matrices
- Strong problem solving and troubleshooting skills

Nice-to-Haves:
- Drone experience (Pixhawk / mission planner / RC control)
- Drone flying and building
- Mavlink protocol
- 3D printing experience
- Solidworks (any CAD) experience

Other Requirements:

Applicant must:

- Be a "U.S. person"**. This is means either:
  - a. A U.S. citizen
  - b. A permanent resident (green-card holder)
  - c. An Asylee
  - d. A Refugee
- Live in or be willing to relocate/commute to Albuquerque, New Mexico for immediate start.

**We know there is an incredible pool of international talent out there and would love to make you part of our team, but unfortunately as a government contractor we are legally not allowed to hire non "U.S. Persons". We hope to be able to hire internationally in the future!

Quick-Facts:

- Full time role (40h pw)
- 8am-5pm (1h lunch)
- Location: **in-person** in Albuquerque and occasionally Edgewood, NM
- Starting Salary: $70,720- $83,200

Benefits!

Transparent Sky offers a generous package of benefits including:

- Healthcare premium reimbursements – individual or couple
- HSA contributions
- Paid Time Off: 240h (6 weeks) annually
- 401k (After 1 year)
- 401k employer matching (up to 4%)
- Life insurance
- Disability insurance

- Meals provided