Drone Edge Processing Project

Setup 1. Clone the repository: git clone https://github.com/<your_username>/Drone-Project.git cd Drone-Project 2. Create and activate a virtual environment: python3 -m venv venv source venv/bin/activate pip install --upgrade pip pip install -r requirements.txt 3. Install Tkinter for GUI (optional): macOS (Python.org installer included): no extra steps macOS (Homebrew + MacPorts): brew install tcl-tk sudo port install python39 +tkinter Linux (Debian/Ubuntu): sudo apt install python3-tk Running the Application 1. Central Server + Dashboard: source venv/bin/activate python -m src.central_server.tcp_receiver --config config/server_config.yaml 2. Drone TCP Server: source venv/bin/activate

3. Sensor Node Instances (e.g., 3 sensors):

python -m src.drone.tcp_server --config config/drone_config.yaml