# Technical Stack

* Frontend: Next.js/React + Recharts (considering alternatives like Preact or Svelte for lighter footprint).
* Backend: FastAPI + WebSockets + SQLAlchemy.
* Database: PostgreSQL.
* UART Bridge: Python + pyserial.
* PDF Generation: WeasyPrint or PDFKit.
* Authentication: FastAPI Users or external services like Auth0.
* Deployment: Docker Desktop for containerization and orchestration.

Plan: