



*Data Turbine Android Sensor Pod
Taiwan Forest Research Institute
(TFRI)*

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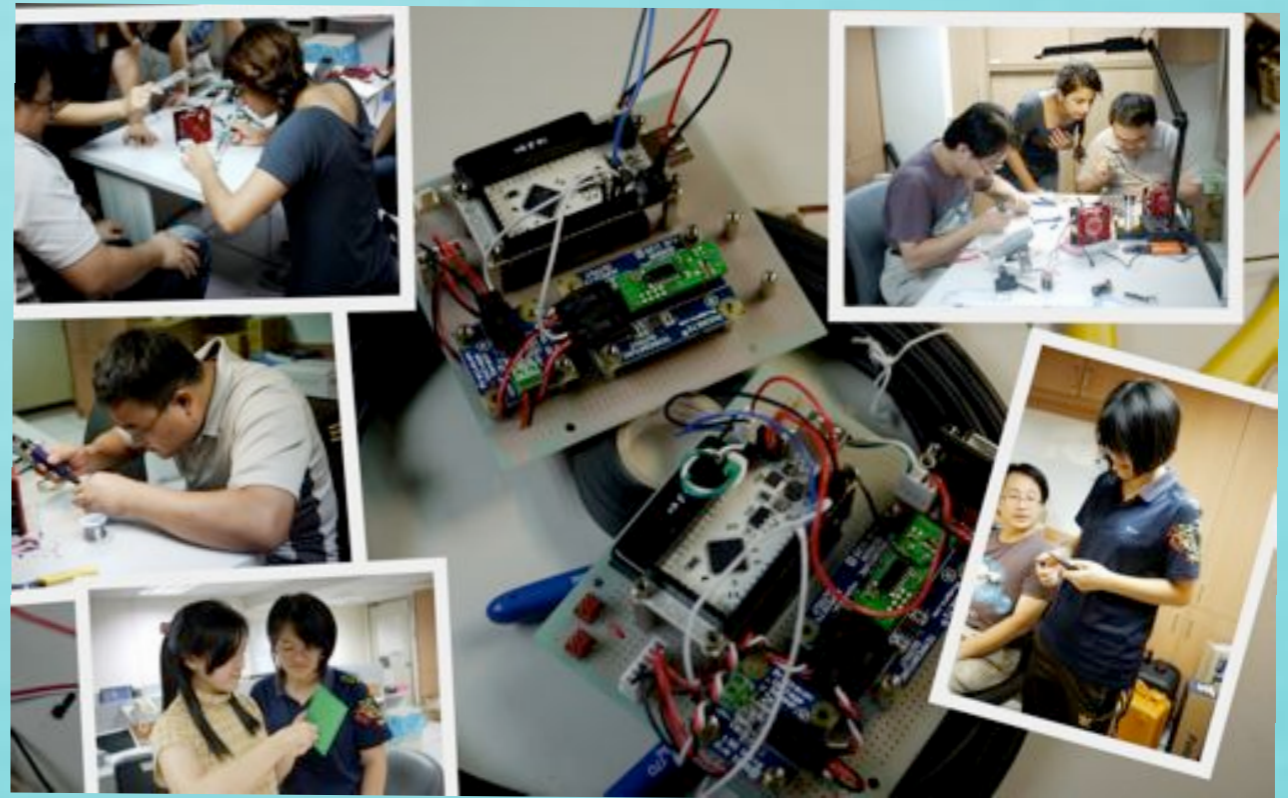
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Project Proposal

- ▶ This project will assist researchers at the Taiwan Forest Research Institute (TFRI) in developing and testing an environmental monitoring system based on the Android platform and the DataTurbine software.
- ▶ As for my part, I will focus on integrating a weather station at the TFRI research station with the DataTurbine Android Sensor Pod developed by my mentor's research group at UCSD.

Progress: We have a new board!

- ▶ Were able to built a new board with our team at TFRI
- ▶ Brain storming for possible design layout for the protected box
- ▶ Researched on solar panel configuration



Goals for next week



SUNTECH	
Model Number	STP020S-12Cb
Rated Maximum Power	(Pmax) 20W
Output Tolerance	(Imp) ±10%
Current at Pmax	(Vmp) 1.14A
Voltage at Pmax	(Voc) 17.6V
Short-Circuit Current	(Isc) 1.26A
Open-Circuit Voltage	(Voc) 21.7V
Nominal Operating Cell Temp.	(T _{NOCT}) 45°C±2°C
Weight	2.5kg
Dimension	656×306×18(mm)
Maximum System Voltage	715V
Maximum Series Fuse Rating	5A
Cell Technology	mono-Si

All technical data at standard test condition
AM=1.5 E=1000W/m² Tc=25 °C
Add: 17-8 Changjiang South Road, New District Wuxi, China 214028
Customer Service Hot Line: +86 400 8888 009 Fax: +86 510 8534 3321
Manufactured in China



- ▶ Connect the board to a 12V 7.2Ah car battery
- ▶ Learn the configuration of the solar charger (PROSTAR-15)
- ▶ Manage to set up the Solar Panels to the Battery and Solar charger
- ▶ Calculate/test the Power loss in the cable

Culture



No Chinese? No Problem!!!

I was given a manual on how to properly eat my dumplings on 4 easy steps! :)

