```
else if (i==2)
                                                                            var atpos=inputs[i].indexOf(""")
                                                                                     var dotpos=inputs[i].lastInden**
                                                                                                                                                                                                                                                                          VI dotposkatros*
                                                                                                          document.getElementById('errimination of the company of the compan
Sheng-Hao Wu
    Portfolio
                                                                                                                                                  tocument.getElementById(div).
```

Modem Chip Power Feature

Work Experience

Driver Owner

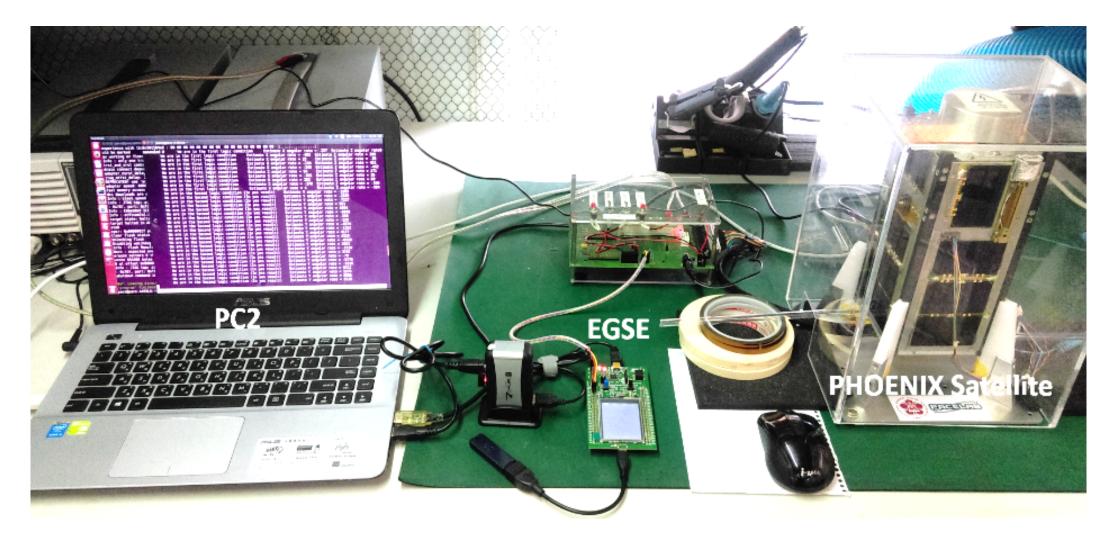
- Dynamic Voltage and Frequency Scaling (DVFS)
 - SW strategy including drivers, interface and control flow for users (C, >10000 lines)
 - Save up 25% power margin under high through-put scenario
- Power Management based on Chip characteristic, temperature
 - SW strategy and thermal driver (C, >5000 lines)
 - Driving yield and optimizing chips test-flow, achieving 15% margin reduction

Award

- Received company award four times meeting company's core values through performance
 - 4 times vAwards

CubeSat Phoenix Lab Project and Research

- Subsystem Owner Achievements
 - Electrical Power Subsystem (EPS)
 - Pre-mission power analysis program (C++, 500 lines)
 - STK simulation and verification
 - Attitude Determination and Control Subsystem (ADCS)
 - Pre-mission simulation program (MATLAB, >3000 lines)
 - Embedded control program (C, >2000 lines)
- Publications Link
 - Pre-Mission Analysis and Design of EPS of 2U CubeSat (IAA_B10_1207P)
 - A Small Satellite Mission for ISS Debris Collision Avoidance (IAA_B10_0208P)



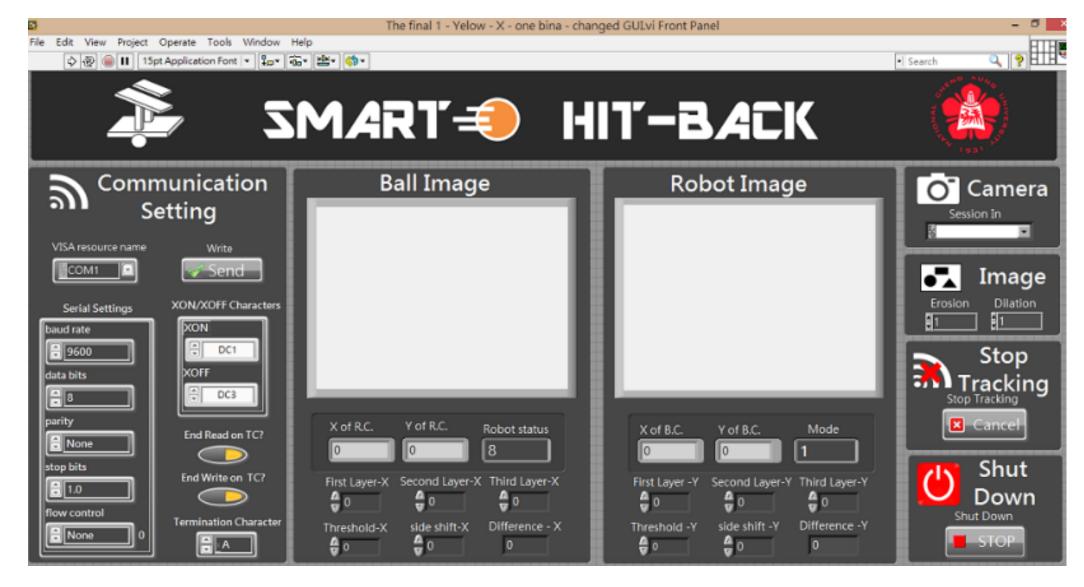
Software Verification



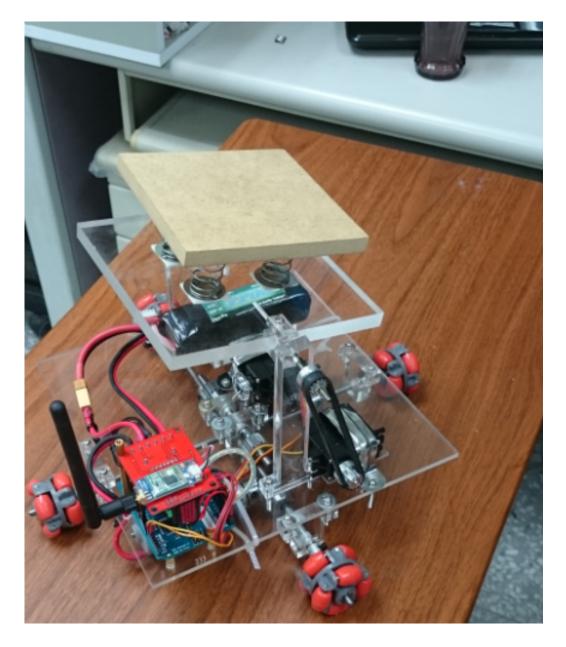
CubeSat Operation

Smart Hit-Back RobotMechatronic Project, Team Leader

- Achievements Demo Document
 - Mobility and Movement Control
 - Joystick Wireless SPI Signal Decoding (C, 200 lines)
 - Motors control program (C, 800 lines)
 - Object (Color) Detection and Tracking
 - Color Recognition Algorithm (LabVIEW, >1000lines)
 - Detection and Tracking Algorithm (C, 500 lines)
- Award Link
 - Awarded 2nd place in "MS Project Competition of ME Department"
 - Received Company's Favored Award "TSMC Award"



User Interface



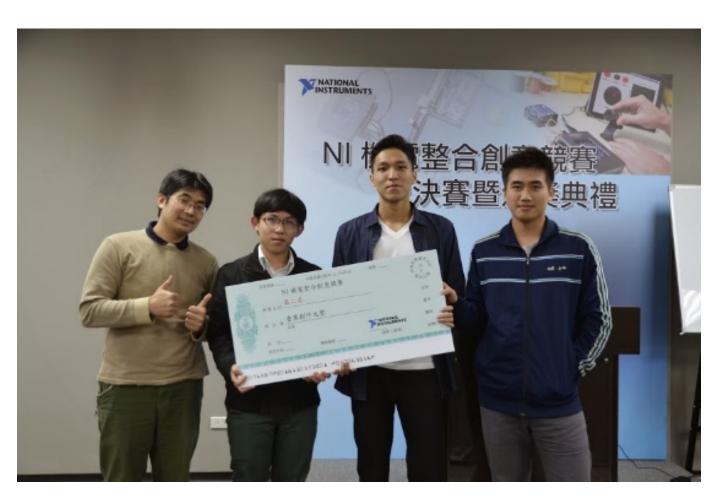
Robot

Smart Wireless Control and Color Recognition Tank College of Engineering Capstone Project (2), Team Leader

- Achievements <u>Demo</u> <u>Document</u>
 - Mobility and Movement Control
 - Joystick Wireless SPI Signal Decoding (LabVIEW, 100 lines)
 - Motors control program (LabVIEW, 500 lines)
 - Object (Color) Detection and Tracking
 - Color Recognition Algorithm (LabVIEW, >1000lines)
 - Detection and Tracking Algorithm (LabVIEW, 400 lines)
- Award Link
 - Awarded 2nd place in "Project Competition of NI Corp 2015"
 - Selected for demonstration for NI Corp in 2015 Taipei Maker Fair



MakerFair Demo



NI Competition

Joystick Control and Visual Tracking System Study of Topics(1)

- Achievements Demo
 - Pan and Tilt Control
 - Joystick signal ADC and Motors control program (C++, 800 lines)
 - Object (Color) Detection and Tracking
 - Color Recognition Algorithm (LabVIEW, >1000lines)
 - Detection and Tracking Algorithm (C++, 500 lines)
- Award
 - Awarded 2nd place in "Bachelor Student's Project Completion"

