Team 1 Weekly Report
February 26th 2009

By: Eric Leknes
Team Members: James, Alex and Tarek
Overview & Updates
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Voltage Regulator Circuitry

Auxiliary PIC Circuitry
Completed Work

• The painting has been completed
• MOSFET switches were tested to with PIC logic and relays
  ▫ Gear shifting
  ▫ Engine shutdown
• The circuit design created in Multisim both for PCB design and as an information backup
Completed Work

- The speedometer and accompanying speed indicator has been fixed and now works
- All major power lines and other wires have been routed
- The new throttle servo has been installed
- The PCB design has been completed and just needs to be ordered
Challenges to Overcome

- Figure out why the voltage regulator failed recently
  - The regulator failed because of a short between a 5V and GND line on the RF receiver
- Making sure the new servo solves the throttle power problem
  - New servo was tested with engine running and has the power to allow full range of throttle linkage
Future Work

• Short term:
  ▫ Order PCB
  ▫ Make a front panel for switches and indicators
  ▫ Populate PCB (when it comes)
  ▫ Finish joystick holder

• Long term:
  ▫ Finishing touches on software (once PCB is in place)
  ▫ Electronics enclosure
  ▫ Testing
  ▫ Write manual
Future Work

- **Eric:**
  - PCB installation
  - Finish software
- **James:**
  - Joystick holder
- **Alex:**
  - PCB population
  - Front panel
  - Electronics enclosure
- **Tarek:**
  - Electronics enclosure
Budget

- Spent this week
  - $10
- Total expenditures
  - $2370
- Future expenditures
  - PCB ~$100
  - Gas ~$40
- Total spending
  - $2511.69
Hours Worked

- James
  - 19h 24m 43s
- Eric
  - 19h 24m 43s
- Alex
  - 17h 49m 12s
- Tarek
  - 15h 32m 5s