

# Copy Cat Car

By Group 3:

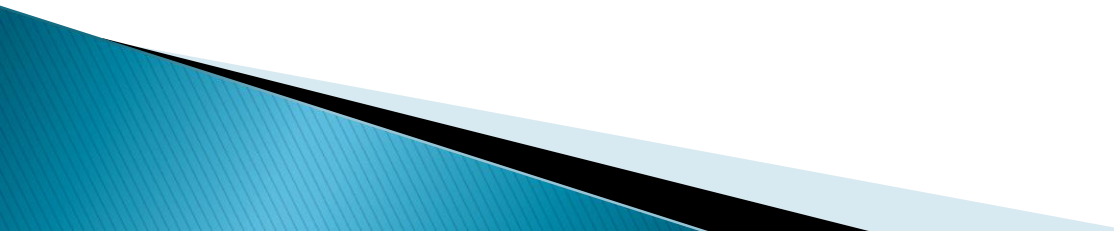
**David Fry**

**Sangamitra Katamreddy**

**Uendarredy Mamidi**

**Raghunath Pasumarthi**

# Overall Status

- ✓ All components acquired and tested
  - ✓ Motors are prepared, installed and tested in the chassis
  - ✓ Code has been written for the H-bridge
  - ✓ Coding is proceeding
- 

# COMPONENTS

**MSP430**

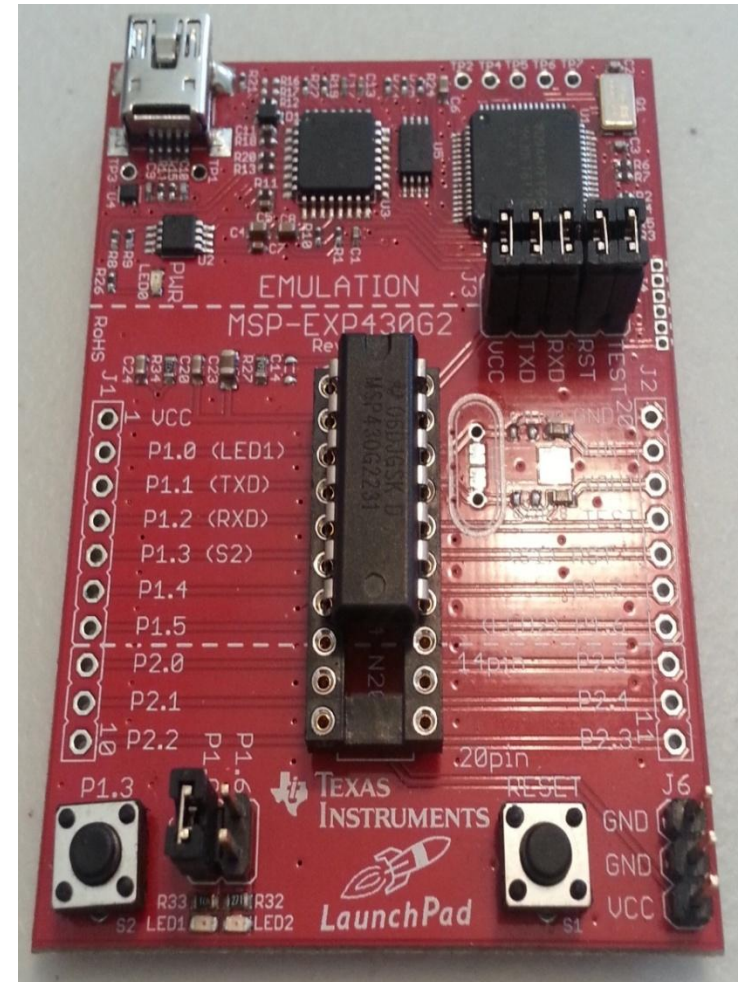
**MSP430G2153**

USCI\_A (UART/LIN/IrDA/SPI)

USCI\_B (I2C & SPI)

.25 KB SRAM

**PROGRESS :**  
**ACTIVELY CODING**



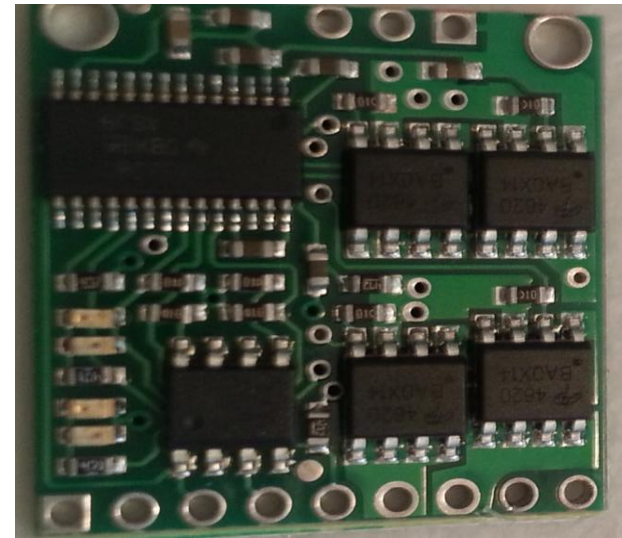
# H BRIDGE CONTROLLER

Connected to the USCI\_A  
pins of the USART  
Interface in UART Mode

Uart\_Tx 1.2 -> pin 4  
Port 2.1 -> pin 5 reset

[http://www.ti.com/sc/docs/products/micro/msp430/userguid/ag\\_13.pdf](http://www.ti.com/sc/docs/products/micro/msp430/userguid/ag_13.pdf)

- Code has been written



# BLUETOOTH MODULE

**Connected via USCI\_A pins  
to the USART interface  
in UART mode**

**RX 1.1 -> pin 14**

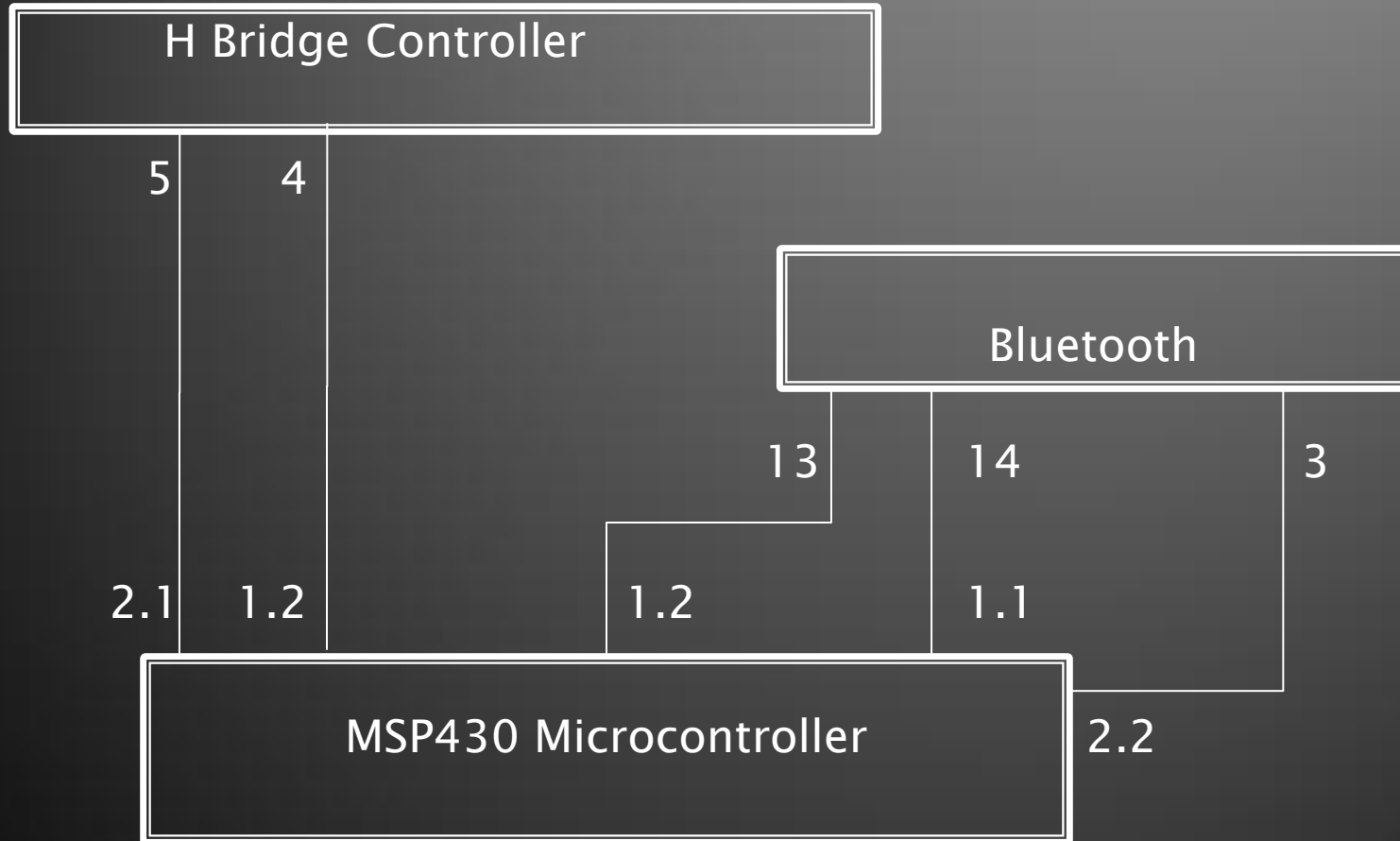
**TX 1.2 -> pin 13**

**Port 2.2-> pin 3**

- **Coding in progress**

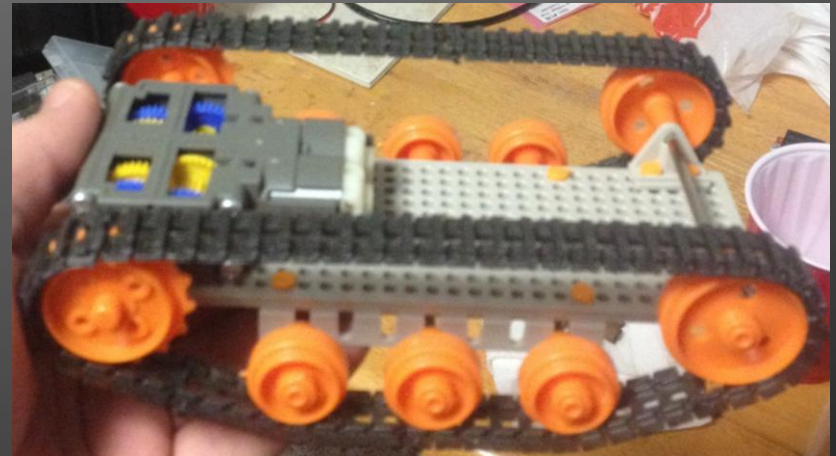


# BLOCK DIAGRAM



# MOTOR UNIT

- Adjustable gear
- Independent left and right
- Connects to H-Bridge
- Tested and working, integrated with chassis



# TASK DIVISION

- David Fry** - Hardware and Integration
- UpendarReddy**
- Mamidi** - H-bridge controller Interface
- SangaMitraReddy** - Bluetooth Interface
- Raghunath**
- Pasumarthi** - Software, Android Application



# plan b

- **To use a wired controller as opposed to the Bluetooth module**