

RC Car Project

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PRODUCT DEVELOPMENT I 247-506-VA (FALL 2021)

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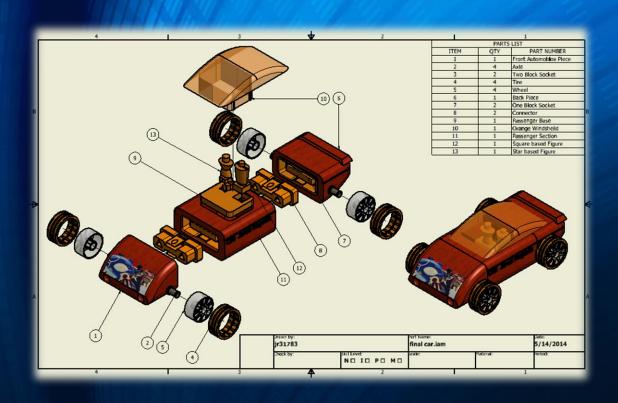
Presentation Content

- Project goal.
- Assembling RC car & RC remote.
- RC car schematic & RC remote schematic.
- Programming RC car & RC remote.
- Problems encountered.
- Project demo.



Project Goal

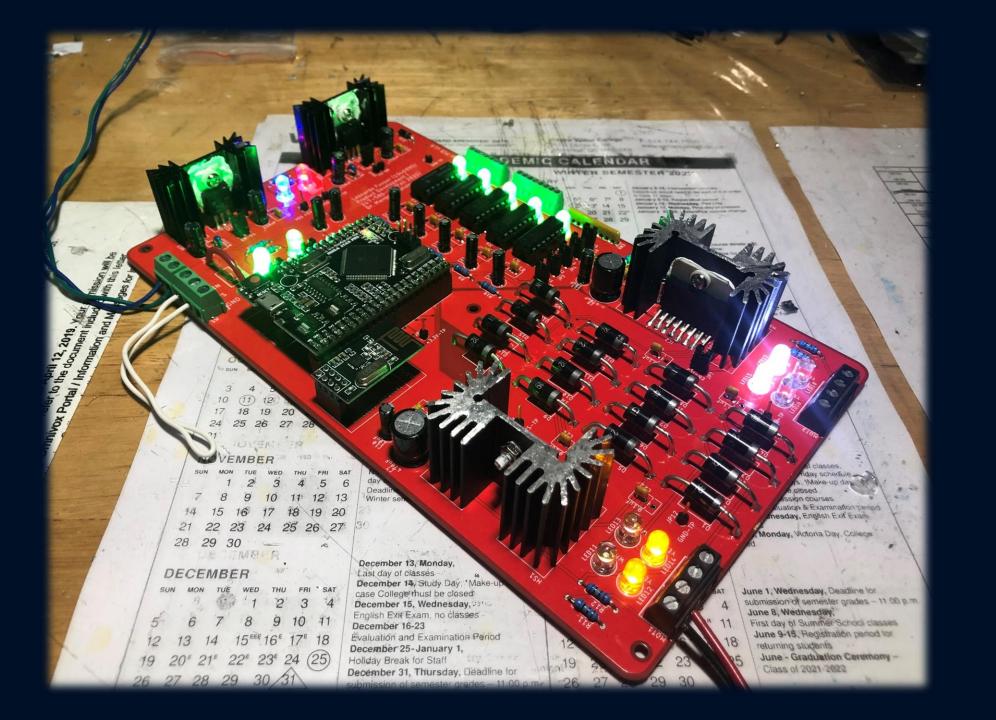
WHY AM I DOING THIS?

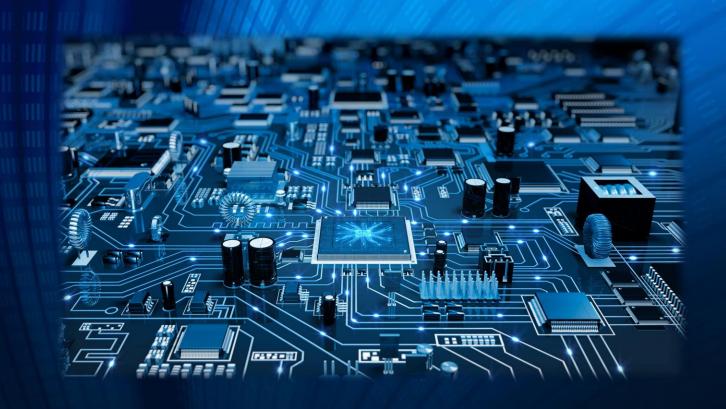


Project Assembly

PUTTING ALL THE PIECES TOGETHER.







Schematics

RC CAR & RC REMOTE ELECTRICAL WORKINGS.

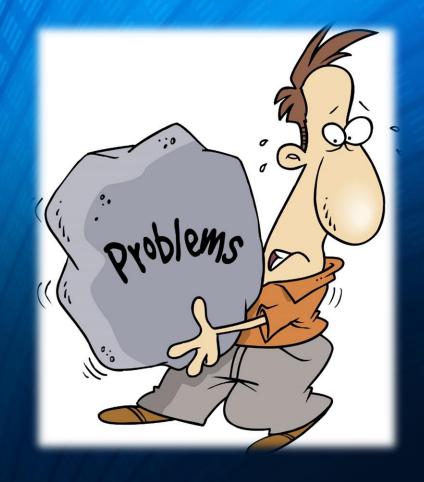
```
nclude <Adafruit_NeoPixel.h>
fdef _AVR_
clude <avr/power.h> // Required fo // include the library code:
                              #include <LiquidCrystal.h>
e LED_COUNT
            Blink §
Position =
istance = int led = 13;
NeoPixel // the setup routine runs once when you press reset:
        // initialize the digital pin as an
        pinMode(led, OUTPUT).
```

Programming

PROGRAMMING THE RC CAR & THE RC REMOTE.

Filename	Functionality
Car.ino	Main file for RC car.
Wireless.cpp	Contains initialization and writing functions for RC car wireless module.
Wireless.h	Contains dependencies, prototypes and macros for Wireless.cpp file.
Motors.cpp	Contains initialization and writing functions for RC car motors.
Motors.h	Contains dependencies, prototypes and macros for Motors.cpp file.
Lights.cpp	Contains initialization and writing functions for RC car lights.
Lights.h	Contains dependencies, prototypes and macros for Lights.cpp file.
Task.cpp	Contains application-task function for RC car.
Task.h	Contains dependencies, prototypes and macros for Task.cpp file.

Filename	Functionality
Remote.ino	Main file for RC remote.
Wireless.cpp	Contains initialization and writing functions for RC remote wireless module.
Wireless.h	Contains dependencies, prototypes and macros for Wireless.cpp file.
Display.cpp	Contains initialization and writing functions for RC remote LCD.
Display.h	Contains dependencies, prototypes and macros for Display.cpp file.
Joystick.cpp	Contains initialization and writing functions for RC remote joystick.
Joystick.h	Contains dependencies, prototypes and macros for Joystick.cpp file.
Task.cpp	Contains application-task function for RC remote.
Task.h	Contains dependencies, prototypes and macros for Task.cpp file.



Problems Encountered

THE ISSUES THAT WERE SEEN.

Demo time!

