**Arduino Group Project**

**Project Proposal**

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The picture above displays the group along with our working Arduino car.

Project proposal: Utilizing the Arduino microcontroller, the group proposes to construct a light emitting diode (or LED) based system that mimics police lights and siren. The materials necessary to give this project functionality include, but not limited to: The Arduino microcontroller, various blue, red, and white light emitting diodes, a speaker to imitate siren, multiple wires to connect the system, a H-bridge integrated circuit, a breadboard, resistors, a capacitor, wire strippers, nut and bolts, screw drivers (Phillip’s and Flathead, possibly), a computer to program the Arduino, etcetera. The group intends to program the Arduino to create an alternating electrical pattern that makes the LEDs simulate actual blinking police lights. The group will also incorporate the speaker to imitate the police siren in conjunction with the LEDs. The final result will be a system that simulates police lights and sirens.