

Adam Schendel
Senior Division Engineering
Lockdown Bot Phase 2.0

The goal of this project is to create a school lockdown robot that is capable of getting identification on an intruder at a school emergency. This design is practical and is designed to be useful for the school. It is an inexpensive and helpful to the police on catching the intruder to the school. The researcher used a remote control car as the platform for his project. The car was controlled by Comfiletech's Cubloc controller. This is a PLC or programmable logic controller. The motors for the car were hooked up to one of the two 8 relay boards hooked up in an H circuit. The Cubloc is hooked up to a wireless router with new firmware on it. The Cubloc is hooked up through the maxport server. The IP camera is hooked up to the router allow the researcher to see where the car is going when driving it from a different location. The car travels at a speed of roughly 10 miles per hour. The researcher conducted a test of how fast a person walks. This is five miles per hour. This car will help in school security helping in aiding with the police to catch an intruder at a school. Data collection is in progress, no conclusion can be made at this time.