**“Dual Authentication RFID Keypad (D.A.R.K.) Lock”**

By: Youri Lavoie

My third year project is an electromagnetic door lock that can be disarmed by passing near field communication (NFC) enabled devices and radio-frequency identification (RFID) tags (i.e. smartphones, smartwatches, keycards, key fobs, etc.) close to a sensor or by dialing a personal identification number (PIN) using a keypad. A screen and buzzer give users distinct cues for every action. 10 or more users can be programmed into its database.

