



# Prototype of Vehicle Security Alert System on Proton Iswara 1.3

N. A. Ali<sup>1</sup>, A. S. Ja'afar<sup>2</sup>, A. Salleh<sup>3</sup>, M. A. M. Razali<sup>4</sup>, M.Z.A.A Aziz<sup>5</sup>, N. M. Z. Hashim<sup>6</sup>

<sup>1,2,3,4,5,6</sup> Faculty of Electronics & Computer Engineering, Universiti Teknikal Malaysia Melaka, Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia.

<sup>1</sup>alisa@utem.edu.my; <sup>2</sup>shukur@utem.edu.my; <sup>3</sup>azahari@utem.edu.my; <sup>4</sup>ashraf\_5120@yahoo.com; <sup>5</sup>mohamadzoinol@utem.edu.my; <sup>6</sup>nikzarifie@utem.edu.my

---

**Abstract**— Year by year, car stolen cases is increasing rapidly here in anywhere in the world. Statistics released by the Polis Di Raja Malaysia (PDRM) revealed that 5,920 Proton cars were stolen between January and October last year. Police believe the high demand for spare parts in the black market is the main reason for the large number of local cars being stolen. Recently, as the car stolen cases rising up, news about stolen laptop from a parked car is also increasing. The proposed system will be a turning point as to reduce all the car stolen cases. This system is implemented by the usage of Global System for Mobile Communications (GSM) communication, specifically by using the Short Messaging System (SMS) to the user's mobile phone as an alarm. The system works when there is any sensor of car alarm system is been activated, and sends notification immediately to user mobile phone by suing SMS message. In conclusion, this project was successfully implemented as far as individual part and combined projects is concerned. It is recommended that the system to be improved in future by adding a built-in G-Shock sensor that has five (5) level settings and can record multiple impact points. The SMS reply from the user to turn OFF the system should be embedded in the system.

**Keywords**— Alert System; Global System for Mobile Communications (GSM); Modem; PIC16F877A; Short Messaging System (SMS)

---

Full Text: <http://www.ijcsmc.com/docs/papers/September2013/V2I9201353.pdf>