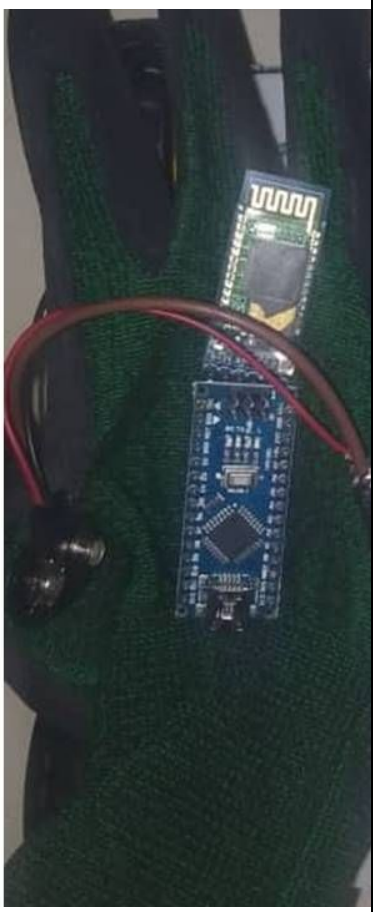
LAMPIRAN J

POLITEKNIK MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	DET
Jabatan *Department*	KEJURUTERAAN ELEKTRIK
Semester/ Tahun *Semester/ Year*	LIMA
Tajuk Projek *Project Title*	HAND GESTURE CONTROLLED TOYS CAR USING ARDUINO
Jenis Projek *Type of Project*	INOVASI
Kategori Kluster Penyelidikan *Category/ research Cluster*	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan *Group member*	1. MUHAMMAD FIRDAUS BIN MOHAMMAD FAUZI 990516045177 2. NUR AQILAH BINTI MOHD JOHAR 990404106182 3. 4. 5.
Penyelia *Supervisor*	PUAN HANISAH BINTI SALAM 860226305326
Penyelia Bersama *Co-Supervisor*	
Abstrak *Abstract*	Hand Gesture is a project that designed to reduce the energy of an individual and worker to make his work without producing more energy. Wireless controlled robots are very useful in many applications like remote surveillance, military etc. In this project we are applying the stuff that we want to control is the toys car. It is made to solve the problem that most people get who used remote to control the toys car. The design project consists of dc gear motor, Arduino circuit, accelerometer sensor and their basic function. All movement of this hand gesture toys car will be controlled by Arduino. The results shows that the Hand Gesture controlled Toys Car can work well and can manage to controlled toys car without any excess energy.

Keyword *Keyword* (max 5 word)	Wireless Toys Car , Five Hand Gesture , Controlling the Toys Car using Hand , No Remote Control
Objektif Projek *Project Objectives*	1.To develop a hand gesture controlled toys car using Arduino, accelerometer and Bluetooth Module HC-05 2.To use five different hand signals to control the motion of the toys car instead of using the remote control with button or joystick. 3.To implement the robot for controlling a toy control car.
Skop Projek *Project scope*	1.This project is focusing on wireless communication, where the data from the arduino will transmit and receive by using the blutooth sensor. 2.The main controller of this robot is Arduino Lilypad for data transmit and Arduino Nano for data receiver. 3.The project is divided into two parts which are transmitter part and receiver part.

IP No		
Dapatan *Finding* (*500 words max*)	1. https://www.researchgate.net/publication/275337350_A_Hand-Gesture-Based_Control_Interface_for_a_Car-Robot 2.https://www.researchgate.net/publication/304624684_Gesture_Controlled_Robot_using_Arduino_and_Android 3.https://www.researchgate.net/publication/317686435_Gesture-based_Robot_Control_Design_Challenges_and_Evaluation_with_Humans 4.https://www.sciencedirect.com/science/article/pii/S187770581202646X 5. https://ieeexplore.ieee.org/document/5460699 6.https://www.researchgate.net/publication/3975362_Using_Gesture_and_Speech_Control_for_Commanding_a_Robot_Assistant 7.Gaurav Gautam, Abhijeet Ashish, Anil Kumar, Avdesh, "Wirelessly Hand Glove Operated Robot", International Journal of AdvancedResearch in Electronics and Communication Engineering (IJARECE), Volume-3, Issue-11,PP.-1546-1547, November 2014.	
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	To implement on other receiver such as baby stroller or vacuum, Can handle a certain amount of weight , To improve in terms of speed, Comfortable , To minimize the size of transmitter and receiver circuit.	
Gambar berkaitan projek *Picture related to project* (700kb)		

Rating/Level	JABATAN

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Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J) dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.