LAMPIRAN J

POLITEKNIK MALAYSIA

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT *INFORMATION*
Program *Program*	Diploma Teknologi Komputer
Jabatan *Department*	Jabatan Kejuruteraan Elektrik
Semester/ Tahun *Semester/ Year*	Semester 5 (2017)
Tajuk Projek *Project Title*	Wireless Headmouse
Jenis Projek *Type of Project*	Hardware & Software
Kategori Kluster Penyelidikan *Category/ research Cluster*	Tanda " / " pada yang berkenaan: *Please tick " / " where applicable:* [ ] Sains tulen (*Pure Science*) [ ] Sains gunaan (*Applied Science*) [/] Teknologi dan kejuruteraan (*Technology and Engineering*) [ ] Sains kesihatan dan klinikal (*Clinical and Health Sciences*) [ ] Sains sosial (*Social Sciences*) [ ] Sastera dan sastera ikhtisas (*Arts and Applied Arts*) [ ] Warisan alam dan budaya (*Natural Sciences and National Heritage*) [ ] Teknologi maklumat dan komunikasi (*Information and Communication Technology*)
Ahli Kumpulan *Group member*	1. Name: Muhammad Amirul Hakim bin Omar No. Identification card: 14DTK14F1047 2. Name: Muhamad Afiq bin Mohd Noor No. Identification card: 14DTK14F1027 3. Name: Tamil Selvam A/L Ramendra No. Identification card: 14DTK15F10
Penyelia *Supervisor*	En. Mohd Faris bin Hashimuddin
Penyelia Bersama *Co-Supervisor*	
Abstrak *Abstract*	Wireless Headmouse is a handheld device for moving the pointer around the screen. It is a primary component of the windows GUI (Graphical User Interface) environment. The Gyrosensor (MPU-6050) system suggested in this study provides a user-friendly interface recognizing the nodding pattern of each user without forcing the user to practice pre-determined operation. Moreover, the rotation and nodding of the head used in the Gyrosensor interface are common and easy movements. The movement detection for this Gyrosensor are based on x,y and z axis. The Bluetooth (HC-05) used to make it as wireless, so the user no need to use USB cable to connect the Headmouse to computer. In conclusion, Wireless Headmouse is compatible to any laptop/pc which is have Bluetooth device. This hardware can really help especially for hand disabilities people who cannot use to control mouse.

Keyword *Keyword* (max 5 word)	Wireless Headmouse
Objektif Projek *Project Objectives*	1. To assist hand disabilities people to control computer cursor with head movement detection. 2. To improve headmouse function (wireless).
Skop Projek *Project scope*	1. For hand disabilities people.
IP No	
Dapatan *Finding* (*500 words max*)	1. We are able to create a wireless headmouse that can function using Arduino software. 2. We are able to do soldering component. 3. We understand about wiring Arduino Leonardo, HC-05, and MPU-6050.
Cadangan untuk kerja-kerja akan datang *Suggestion for future work* (*500words*)	1. Add right and middle click function. 2. Add double left click function.
Gambar berkaitan projek *Picture related to project* (700kb)	 *Figure 1*  *Figure 2*
Rating/Level	Jabatan *Departments*

* *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.*