




## BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION
Program <i>Program</i>	DTK
Jabatan <i>Department</i>	KEJURUTERAAN ELEKTRIK
Semester/ Tahun <i>Semester/ Year</i>	LIMA
Tajuk Projek <i>Project Title</i>	SIGN INTO SPEECH (SIS) USING ARDUINO
Jenis Projek <i>Type of Project</i>	INOVASI
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	TEKNOLOGI DAN KEJURUTERAAN
Ahli Kumpulan <i>Group member</i>	1. NURUL SYAHIRAH BINTI AB. RAHIM 990411-14-6430 2. NOOR ATIQA BINTI ALIAS 990806-01-6120 3. NURUL HUMAIRAH BINTI MOHD YUSUF 990324-04-5586 4. 5.
Penyelia <i>Supervisor</i>	NORZILAH BINTI HUSSIN 720103-01-5770
Penyelia Bersama <i>Co-Supervisor</i>	
Abstrak <i>Abstract</i>	<p>Inability to speak is considered to be true disability. People with this disability use different modes to communicate with others, there are a number of methods available for their communication one such common method of communication is sign language. Sign language allows people to communicate with human body language, each word has a set of human actions representing a particular expression. The motive of the paper is to convert the human sign language to Voice with human gesture understanding and motion capture. This is achieved with the help of Microsoft Kinect a motion capture device from Microsoft. There are a few systems available for sign language to speech conversion but none of them provide natural user interface. For consideration if a person who has a</p>

	disability to speak can stand perform the system and the system converts the human gestures as speech and plays it loud so that the person could actually communicate to a mass crowd gathering. Also the system is planned in bringing high efficiency for the users for improved communication.
Keyword <i>Keyword</i> (max 5 word)	Sign Into Speech
Objektif Projek <i>Project Objectives</i>	<ol style="list-style-type: none"> <li>1. To help the mute people to give the necessary direction through speakers heard by normal people.</li> <li>2. To design a smart glove that can assists the mute people to communicate with the normal people.</li> <li>3. To create a sign language exchange system so that mute people are not excluded by normal people as they understand what mute people are saying.</li> </ol>
Skop Projek <i>Project scope</i>	<ol style="list-style-type: none"> <li>1. This project is focusing in integrating hand gesture recognition using flex sensor.</li> <li>2. The Bluetooth HC-05 and S2 Terminal for Bluetooth Application is used as a connecting device with Arduino Uno board.</li> <li>3. The main controller is using Arduino Uno board that convert data through speaker and application.</li> </ol>

IP No		
Dapatan <i>Finding</i> (500 words max)	Article, Journal and Website.	
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	Quality product	
Gambar berkaitan projek  <i>Picture related to project (700kb)</i>		
Rating/Level	JABATAN	

\*\*

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.

