




## BORANG INVENTORI PROJEK PELAJAR

| PERKARA                                                                   | MAKLUMAT<br>INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Program<br><i>Program</i>                                                 | DET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Jabatan<br><i>Department</i>                                              | KEJURUTERAAN ELEKTRIK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Semester/ Tahun<br><i>Semester/ Year</i>                                  | LIMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tajuk Projek<br><i>Project Title</i>                                      | PRESENCE BOARD USING ARDUINO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Jenis Projek<br><i>Type of Project</i>                                    | INOVASI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Kategori Kluster<br>Penyelidikan<br><i>Category/<br/>research Cluster</i> | TEKNOLOGI DAN KEJURUTERAAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ahli Kumpulan<br><i>Group member</i>                                      | <ol style="list-style-type: none"> <li>1. MUHAMMAD AMIR FAKHRI BIN MD BAHARUDIN<br/>990610-01-5273</li> <li>2. MUHAMAD KHALAS BIN KAMARULZAMAN<br/>991109-10-5229</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Penyelia<br><i>Supervisor</i>                                             | PUAN ATHIRAH BINTI A. RAHIM<br>831001-01-5720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Penyelia Bersama<br><i>Co-Supervisor</i>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Abstrak<br><i>Abstract</i>                                                | <p>Presence Board Using Arduino is a board that show about certain person presence who currently in the room. This board also connected to a fingerprint sensor and door as it's act as security to the room. The operation of this project is when the person wants to come into the room, he or she will need to place their thumbprint to unlock the door. In the same time, the system will detect that person as presence and the board will show that person as presence at the moment.</p> <p>To verify who in the office can be achieve when the outsider push the green push button which is functioned as check button. If the looked person is presence at the time, then the LCD will display that person as available. The security of the office also can be improve since this project use fingerprint</p> |

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|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | <p>module to allowed just the people who already register their fingerprint to enter and not allowed any anonymous person to enter without permission. The door lock system of the office can be enhance by the usage of electromagnetic solenoid thus the old fashioned door knob and the problem that might arise with it such as the door knob being broken or the key holder lost the key can be replace with this project.</p> <p>Presence Board using Arduino is design to develop secure office environment. The fingerprint use to represent the presence of the person in the office on the board. This project will help any person who are searching for someone in the office and also work as security for office employee.</p> |
| <p>Keyword<br/> <i>Keyword</i><br/> (max 5 word)</p>  | ARDUINO PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>Objektif Projek<br/> <i>Project Objectives</i></p> | <p>-TO VERIFY WHO IN THE OFFICE EASILY<br/> -TO DEVELOP MORE SECURE OFFICE BY USING FINGERPRINT<br/> -TO IMPROVE DOOR LOCK SYSTEM BY USING ELECTROMAGNETIC<br/> LOOK TO REMOVE THE MANUAL WAY OF DOOR LOCK</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Skop Projek<br/> <i>Project scope</i></p>          | <p>-APPLIED AT OFFICE<br/> -FINGERPRINT MODULE<br/> -LCD 16x2<br/> -SOLENOID 12V<br/> -GREEN PUSHBUTTON<br/> -RED PUSHBUTTON<br/> -BLACK PUSHBUTTON<br/> -LED<br/> -ARDUINO MEGA 2560 R3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
| IP No                                                                                               |                                                          |                                                                                     |
| Dapatan<br><i>Finding</i><br>(500 words max)                                                        | -RESEARCH<br>-LITERATURE REVIEW<br>-PERSONAL CUNSLTATION |                                                                                     |
| Cadangan untuk<br>kerja-kerja akan<br>datang<br><i>Suggestion for<br/>future work</i><br>(500words) | ADD WIRELESS DEVICE@NRF                                  |                                                                                     |
| Gambar berkaitan<br>projek<br><br><i>Picture related to<br/>project (700kb)</i>                     |                                                          |  |

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|              |         |  |
| 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.*

