

**SCHOOL OF ENGINEERING**

**FINAL REPORT**

**DESIGN OF FUTURISTIC AIR RIFLE FOR  
DIGITAL BATTLEFIELD**

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## **Abstract**

Design of Futuristic Air Rifle for Digital Battlefield – A project that involve both the software and hardware development that will “transform” the old-fashion firearms weapon into a “Smart Gun” which equipped with digital sub-devices (Laser Diode, Bullet Counter and Ultrasonic Range Sensor). This design involves the use of microcontrollers through the development of the assembly language to implement the hardware. The Futuristic Air Rifle for Digital Battlefield is a combinational firearm that will increase the efficiency of the weapon firing operation. Instead of actual firearm, the air rifle is used for the project development to prevent from breaking the laws of the country (Malaysia).

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