

# Industrial Automation Using Android Mobile via Bluetooth

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**Abstract:** *As the world is becoming more technologically advanced, industrial automation becoming more popular. Android is open-source software, manufacturers can modify the operating system for a particular application. This becomes a cheap and feasible alternative for the manufacturer, as hiring a software company to do it. The Android platform supports the Bluetooth network stack, which allows a device to wirelessly exchange data with other Bluetooth devices. The application framework provides access to the Bluetooth functionality through the Android Bluetooth. This paper is mainly focused on the implementation of a prototype system for industrial appliances control like the speed of DC motor, heating coil and light intensity using Android mobile & Bluetooth technology.*

**Keywords:** PIC microcontroller, Bluetooth module, DC motor, Hall Effect sensor, temperature sensor, LDR, Android mobile phone

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