

# REMOTE BLOOD PRESSURE MONITORING BASED ON MEMS SENSOR AND GSM MODULE

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**Abstract:** Blood pressure and heart rate are important parameters of the body , serving the medical diagnosis and treatment . In hospitals of our country, measuring blood pressure and heart rate has been done by manual methods while the foreign specialized gauges are also equipped but not so many because they are quite expensive and difficult to use. Therefore, in this thesis, I did find out, researchers made a blood pressure monitoring what capable of automatically measuring blood pressure and send the results to mobile phone.

The main content of the thesis is studying methods of blood pressure measurement according Ossilometric principles, design and manufacture hardware circuit, writing software for circuit and send the results to mobile phone via SMS.

**Keywords:** *blood pressure, heart rate.*