ENGG 6150 Bioinstrumentation Term Project Proposal

An innovative way of building turbidity signal sensor

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Water quality is very crital to human health as well as industrial sterilization processing. One of devices that can be used to determine water quality is turbidity meter. Traditional signal converter of turbidity meter has five components. It includes sensing element, signal conditioning, filter, analog to digital converter and microcontroller. In this project, an alternative way called direct digital readable sensors or quasi-digital sensor will be utilized to build prototype of turbidity meter. The output of this sensor is microcontroller without using analog to digital converter. [1] To achieve that, literatures will be reviewed and analyzed.

**Reference**

[1] S. Ramesh, M. Sivaramakrishna, G. Rao. Design and development of a quasi-digital sensor and instrument for water turbidity measurement,Measurement Science and Technology, vol. 30, p. 115106, 2019