

IoT Based Sanitary Napkin Vending Machine

Prof. P. R. Rane¹, Anandi Rajandra Mohod², Pallavi Gajanan Bhise³, Pranali Anandrao Manohare⁴
Sakshi Dilip Akolkar⁵, Pratik Arvind Khadse⁶, Saurabh Kishorrao Bisane⁷

Professor, Department of Electrical Engineering¹

Students, Department of Electrical Engineering^{2,3,4,5,6,7}

P. R. Pote College of Engineering and Management, Amravati, Maharashtra, India

Abstract: Nowadays women are leading their countries. They are working all over and playing important role in development. During the time of work their health, hygiene should be taken care especially at the time of menstruation. During menstruation women has to regularly change sanitary napkin in every 5-6 hours. Thus, easy availability of napkin is necessary. Thus, easy availability of napkin is necessary. The issue of menstrual hygiene is inadequately acknowledged attention. Our first aim is to provide an easy way of availability of sanitary napkin to women's during the time of menstruation in normal and emergency condition The solution of this problem is installing automatic sanitary napkin vending machine in proper way. In vending machine, the person can refill napkins when stock is out.

Keywords: Arduino, sanitary napkin, Coin Acceptor, Node MCU

REFERENCES

- [1]. Soegoto, Eddy Soeryanto, Dr. Ir. 2014. Entrepreneurship: Menjadi Pebisnis Ulung. Jakarta: Elex Media Computindo.
- [2]. Bodhale, A. P., and Kulkarni, J. S. 201. Case Study on Different Vending Machines. International Research Journal of Engineering and Technology (IRJET). pp. 3531-3535.
- [3]. Samba Siva Rao et al., "IoT Based Intelligent Sanitary Napkin Disposer", Advances in Natural and Applied Sciences, Pg.32 – 40, Vol.11, Issue 10, August 2017
- [4]. Suhail, Beg, (2014) "Implementation of FSM Based Automatic Dispense Machine with Expiry Date Feature Using VHDL," International Journal of Modern Engineering Research (IJMER).
- [5]. Cardaci, R., Burgassi, S., Golinelli, D., Nante, N., Battaglia, M. A., Bezzini, D., and Messina, G. 2016. Automatic Vending Machines Contamination: A Pilot Study. Global Journal of Health Science, 9(2), pp. 63
- [6]. Das, N., Mandal, R., Mitra, A., Maiti, B., Nandy, S., and Datta, D. 2018. FPGA Based Vending Machine.
- [7]. Check J., Schutt R. K. Survey research. In: J. Check, R. K. Schutt. (2012) editors. Research methods in education. Thousand Oaks, CA.: Sage Publications; pp. 159–185