An IoT Based Fire Extinguishing Robot Industrial and Residential Safety

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Abstract: *Accidents are on the rise in today's world. An accident may potentially cause the loss of many lives, valuable properties, or sometimes may lead to permanent disability to the victim. New and improved technologies are being used to prevent these accidents. In this paper, we have proposed an IoT-based multifunctional fire extinguishing robot that will minimize the damage of the accidents like fire hazards, building collapse, deadly gas leakage, etc. This project aims to ensure the safety of our lives and valuable properties by minimizing the damages that occurred from any accident.*

Keywords: IDE, AVR, PWM, LPG, CNG, ADC

REFERENCES

[1]. P. D. Minns, C Programming For the PC the MAC and the Arduino Microcontroller System. Author House, 2013

[2]. M. Banzi, Getting started with arduino. " O'Reilly Media, Inc.", 2009

[3]. A. M. Gibb, New media art, design, and the Arduino microcontroller: A malleable tool. PhD thesis, Pratt Institute, 2010

[4]. M. Margolis, Arduino cookbook. " O'Reilly Media, Inc.", 2011

[5]. D. Mellis, M. Banzi, D. Cuartielles, and T. Igoe, "Arduino: An open electronicprototyping platform, " in Proc. CHI, vol. 2007, 2007

[6]. C. K. Joo, Y. C. Kim, M. H. Choi, and Y. J. Ryoo, Self localization for intelligent mobile robot using multiple infrared range scanning system, In Control, Automation and Systems ICCAS'07, Seoul, Korea, 2007, 606-609.

[7]. http://electronicsforu.com/electronics-projects/hardware-diy/arduino-ir-firefighter robot

[8]. http://maker.robotistan.com/arduino-dersleri

[9]. J. Xu, W. Coombe, N. Boyson, A. Ohira, X. Gu, 143.472 Industrial SystemsDesign and Integration Fire Fighting Robot, 2006

[10]. P. D. Minns, C Programming For the PC the MAC and the ArduinoMicrocontroller System. Author House, 2013

[11]. M. Banzi, Getting started with arduino. " O'Reilly Media, Inc.", 2009

[12]. P. D. Minns, C Programming For the PC the MAC and the ArduinoMicrocontroller System. Author House, 2013

[13]. M. Banzi, Getting started with arduino. " O'Reilly Media, Inc.", 2009

[14]. A. M. Gibb, New media art, design, and the Arduino microcontroller: Amalleable tool. PhD thesis, Pratt Institute, 2010

[15]. M. Margolis, Arduino cookbook. " O'Reilly Media, Inc.", 2011