

Today ~~a general~~, there is an increasing and widespread need for robots ~~assisting different to assist~~ ~~with a range of~~ human activities ~~goes up~~. The goal of the present project ~~This study aims is~~ ~~develop to develop~~ a general-purpose ~~frame-work, which provide~~ framework that provides facilities for attaching and fitting different ~~kindstypes~~ of sensors and actuators. ~~These general purpose~~ This framework ~~gives a will provide an~~ easy way ~~to to~~ turn general-purpose ~~robot with~~ ~~arobots into~~ special-function ~~oneones~~. The ~~final concreteultimate~~ goal ~~of is present development is~~ ~~to developing the to develop an~~ autonomous ~~robotic assisting clinically~~ robot to assist clinical patients and ~~the or elderly person's~~. The attached sensors ~~collecting collect~~ information ~~using from~~ the ~~surrounding worlds robot's surroundings~~ and send it to ~~a field programmable gate array (FPGA)~~ board. ~~The FPGA board will, which~~ controls the ~~sensor's sensors~~ and ~~processed processes~~ the measured values. ~~With Based on~~ the measured data, the FPGA board can ~~controls robots control the~~ ~~robot's~~ movement. The ~~chosen~~ implementation platform ~~chosen~~ was a Nexys 3 Spartan-6 FPGA ~~Board. The sensors (light board. Light, humidity, and temperature) attaching sensors are attached to~~ the board, and the ~~process processed~~ values ~~come are shown~~ on ~~graphics a graphical~~ display. Finally, the robots can ~~communicating to communicate with~~ each other ~~with the PmodRF2 using Digilent Pmod RF2 IEEE 802.15 RF Transceiver. transceivers~~. Fig. 1 ~~showed shows~~ the ~~scheme design~~ of the robot.

**Comment [A1]:** Prepositional phrases should be set off from the main clause using a comma.

**Comment [A2]:** Some adjectives stand for a group or people who share the same characteristic so they function as nouns. In such cases, "the" is placed before such words and a plural verb is used.

**Comment [A3]:** An abbreviation needs to be spelled out once in the document and used consistently thereafter.

The project ~~consisting in comprises~~ two ~~major main~~ components: ~~the~~ robot, and ~~a~~ cell phone. ~~Between a app. The~~ robot and ~~the~~ cell phone ~~communications is gotten communicate~~ using Bluetooth ~~module's~~. The software ~~implement was is done through~~ ~~implemented in the~~ Verilog ~~hard-ware hardware~~ description language and ~~java (android the Java (Android SDK) program) programming~~ language. The ~~Pmod OLED's controller code were~~ ~~for controlling the Digilent Pmod OLED screen is~~ written ~~on in the~~ C programming language and runs ~~in the on~~ a Microchip Technology PIC18F45K20 ~~micro-controller microcontroller~~.

**Comment [A4]:** Formal language is a hallmark of academic English. One way to ensure conciseness in expression is converting phrasal verbs to formal words.

**Comment [A5]:** To use the colon correctly, you must make sure that sentence that comes before the colon is a complete, grammatical sentence.

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The robot is equipped with a [Nexys 3 FPGA Board with XILINX SPARTAN-6](#) based on a [Xilinx Spartan-6](#) FPGA, which controls [the](#) attached peripheral devices. It has ~~a~~ two analog ~~sensor;~~ [sensors](#): a light “sensor” (photo-resistor) and a [humidity sensor \(Samyoung SYH-2R\)](#), ~~PmodAD1 converted~~. [A Digilent Pmod AD1 converts](#) the analog ~~signal's~~ [signals](#) into digital ~~value's~~ [and then values for processing by](#) the FPGA ~~can process the~~. [The temperature is](#) measured ~~values. A~~ [by a Maxim Integrated DS18S20 digital thermometer](#) ~~measuring the temperature. It has a , which is~~ [accurate to within 0.5C-accuracy](#) ~~5°C~~ between ~~[-10°C to and~~ [+85°C](#). The FPGA ~~board~~ [collects](#) the measured values and; ~~then~~ [evaluates these. Using a them](#). [The robot uses a Nuvoton ISD1760](#) voice recording and playback device ~~the robot to~~ [play back](#) ~~template voices accordingly to the~~ [measuring voice templates based on the measured](#) values. ~~A PIC18F45K20 micro-controller~~ [The microcontroller](#) communicates with the FPGA board and ~~handle PmodOLED~~ [handles the](#) display, which ~~displaying evaluated~~ [shows the measured](#) humidity; and light [level](#) information. ~~What is more~~ [it include an](#) ~~It also includes a Rayson~~ [BTM-222 Bluetooth module. It can communicate using,](#) [enabling it to communicate with](#) a cell phone ~~(running the Android operating system)~~. [Based](#) on the ~~phone their is a android operation system ) and according on a received~~ [information received](#) from the cell phone, [it instructs](#) the FPGA ~~will be handles the movements of~~ [to activate](#) the motors [accordingly](#).

**Comment [A6]:** A minus sign (-) instead of a hyphen (-) can should be used to indicate negative values.