**NATIONAL UNIVERSITY OF SAN MARCOS**

**University of Peru, Dean of America**

**FACULTY OF SYSTEMS ENGINEERING AND COMPUTER SCIENCE**

**PROFESSIONAL SCHOOL OF SYSTEMS ENGINEERING**

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**COURSE:**

Artificial intelligence

**THEME:**

Week 2 Report

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**LIMA – PERU**

**2021**

**Robot Atlas**

Atlas is a bipedal humanoid robot developed primarily by the North American robotics company Boston Dynamics,with funding and oversight from the Defense Advanced Research Projects Agency (DARPA). The 1.8m robot is designed for a variety of search and rescue tasks and was unveiled to the public on July 11, 2013.

Atlas is intended to assist emergency services in search and rescue operations, performing tasks such as closing valves, opening doors, and operating motorized equipment in environments where humans could not survive. [3](https://es.wikipedia.org/wiki/Atlas_(robot)#cite_note-NYT-3)The Department of Defense stated in 2013 that it had no interest in using the robot for offensive or defensive warfare.

In the Darpa 2015 robotics competition, Atlas was able to complete all eight tasks as follows:

* He drove a utility vehicle at the site.
* He traveled disassembled through the rubble.
* He removed the debris blocking an entrance.
* He opened a door and walked into a building.
* He climbed an industrial staircase and crossed an industrial walkway.
* He used a tool to break a concrete panel.
* He located and closed a valve near a leaky pipe.
* He connected a fire hose to a vertical pipe and turned on a valve.

**Example**

S1: Temperature

S2: Distance

S3: Humidity

S4: Sound

S5: Light

S6: Acceleration

S7: Movement

If S3.VALOR > 0.5

If S2.VALOR <= 0.5

If S6.VALOR 15

FRENAR()

Else

If S1.VALOR >15

ACTIVARVENTILADOR()

Endif