

# **Humaniod welding robot : A review of design and implementation**

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**Abstract:**

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**Keywords:**

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**Introduction:**

- Short intro of various welding process
- Work environment and the hazards
- How industrial automation helps to overcome the hazards
- Why ind. Robots are not used in small and medium scale industry
- Importance of humanoid robots in welding and fabrication industry
- What this paper will discuss – mech. Design or sensor integration or implementation based

**Research methodology:**

- Study of structure and kinematics of humanoid robots
- Sensor integration
- Motion control techniques
- Ml and ai uses
- Implementation and design of the system

**Detailed design study:**

1. Mechanical structure
2. Power system
3. Control system
4. Safety based measures

**Discussion and Challenges:**

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**Future research directions:**

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**Conclusion:**

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**References:**

1.