

# Bluetooth Controlled Robotic Arm Using Arduino Uno

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## PROBLEM STATEMENT

In today's world there is an increasing need to create artificial arms for different inhuman situations where human interaction is difficult or impossible. They may involve taking readings from an active volcano to diffusing a bomb.

## TEAM MEMBERS

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## INTRODUCTION

Nowadays, robots are increasingly being integrated into working tasks to replace humans especially to perform the repetitive task. In general, robotics can be divided into two areas, industrial and service robotics. These robots are currently used in many fields of applications including office, military tasks, hospital operations, dangerous environment and agriculture. Besides, it might be difficult or dangerous for humans to do some specific tasks like picking up explosive chemicals, defusing bombs or in worst case scenario to pick and place the bomb somewhere for containment and for repeated pick and place action in industries. Therefore, a robot can be replaced human to do work.

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## IDEA GENERATION

The development of this arm is based on ATmega32 and ATmega640 platform through Arduino UNO or MEGA along with a personal computer for signal processing, which will all be interfaced with each other using serial communication. Finally, this prototype of the arm may be expected to overcome the problem such as placing or picking hazardous objects or non-hazardous objects that are far away from the user and also is used where displacement of very heavy objects is needed from one place to another or automation required in many industries.

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## PROTOTYPE IMAGES



