

* Robotic Ball Boy

Project Goals:

- * Create a robotic device that will function as a ball boy for professional tennis players.
- * Designing, building, and testing a robotic platform which can pick up and hold at least three tennis balls.
- * The robot will have the ability to receive wireless commands from the tennis player.
- * The robot will be able to avoid objects, such as players, the net, etc.
- * The robot will be able to retrieve one or more tennis balls from the court and return to its original position in less than 20 seconds.

Project Deliverables:

Robot mounted with:

- * Ball Retrieving Mechanism
- * Microcontroller
- * Camera
- * RF Receiver
- * Ball Launcher



Wristwatch

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Subsystems:

- * **Image Processing**
- * **Wireless (RF)**
- * **HW/SW Interface**
- * **Controls**
- * **Power**

Robot

