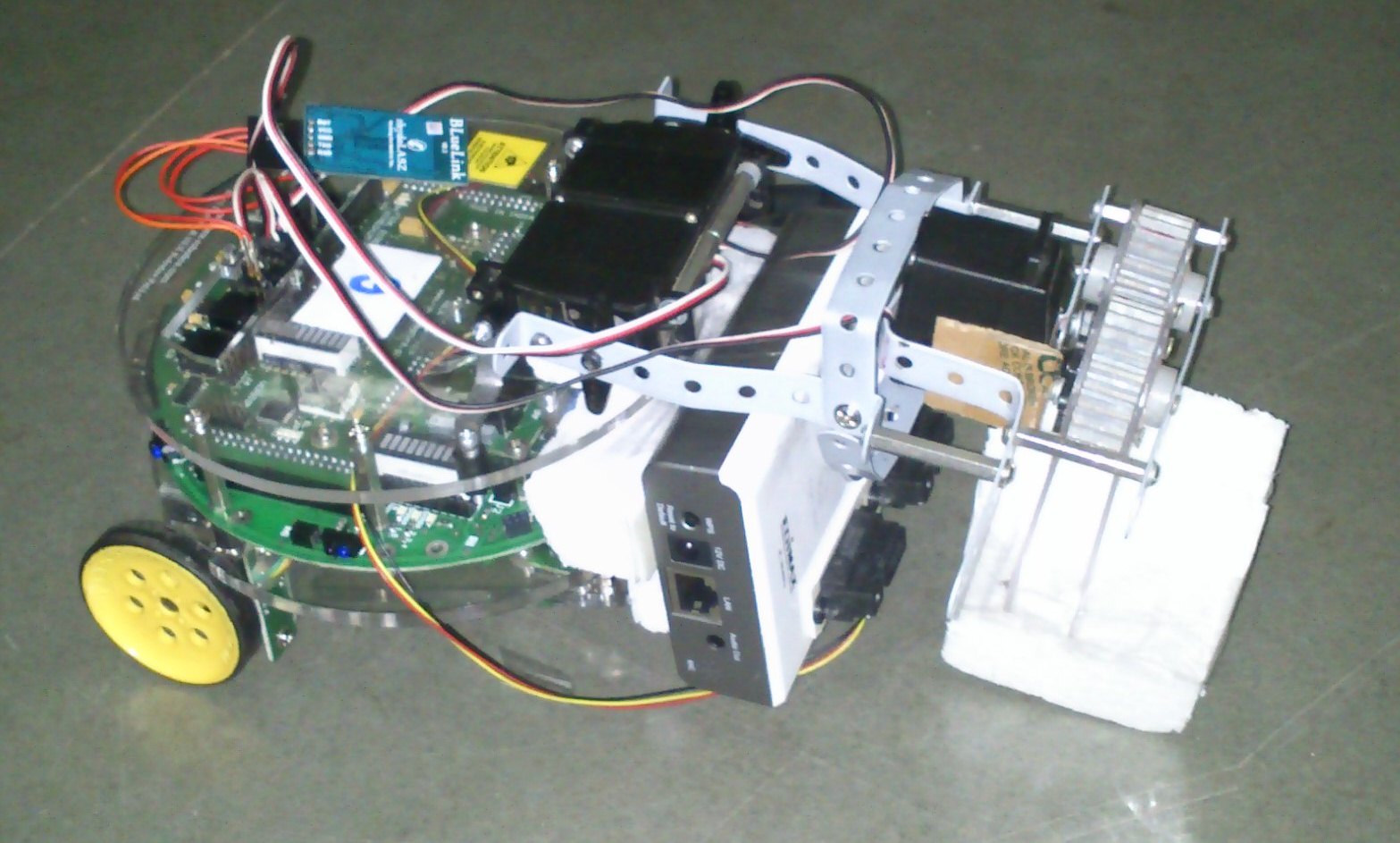
**ERTS Lab, IIT Bombay**

Android Based Remote Tennis Ball Collector



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Our Firebird functions as a tennis ball collector. It sends the video stream of environment in front of it via an IP Camera fixed in front of it. Android mobile downloads the video from the IP Address of camera and processes it for the presence of tennis ball. Then it sends appropriate signal to the bot via Bluetooth communication module.

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# Introduction

## Overall Description

## Definitions

## Requirement Specification

## References

## Developer Responsibilities

# Implementation

## Product Perspective

## Product Functions Overview

## User Flowchart & System Design

## User Characteristics

## General constraints and assumptions

## Additional Hardware

# Functional Requirements

## each feature e.g. Bluetooth>

# Implementation of Functional Requirements

Working - explain with diagrams

## Sub-parts and explain code )

# External Interface Requirements

## Android Application

## Embedded Systems

## Hardware

Describe the implementation and reproduction of various hardware/mechanical parts used

explain with diagrams

# Usage Settings

Various settings which are to be made to use the project

# Development

## Settings & Configuration

say for communication e.g. serial, Bluetooth, Wi-Fi

### Environment

1. FB5
2. Android

### Project (adjustable)

## Utilities

### Hardware

### Software

## Code Description

Just copy paste the commented code here

## Instruction Execution

# Performance Characteristics

# Design Constraints

(These constraints can be overcomed)

# Testing

## Criteria

test cases

## Results

# Troubleshooting

## Delays

## something not working?

# Individual Roles and contribution

include learnings

# Roadmap

expected deadlines and completion

# Challenges and Innovation

## Github Repo

properly maintained and all codes are commited regularly

## Bugs & Fixes

# Bug Report

Unfixed bugs

# Reusability

for name sake

# Future Work

# Conclusion