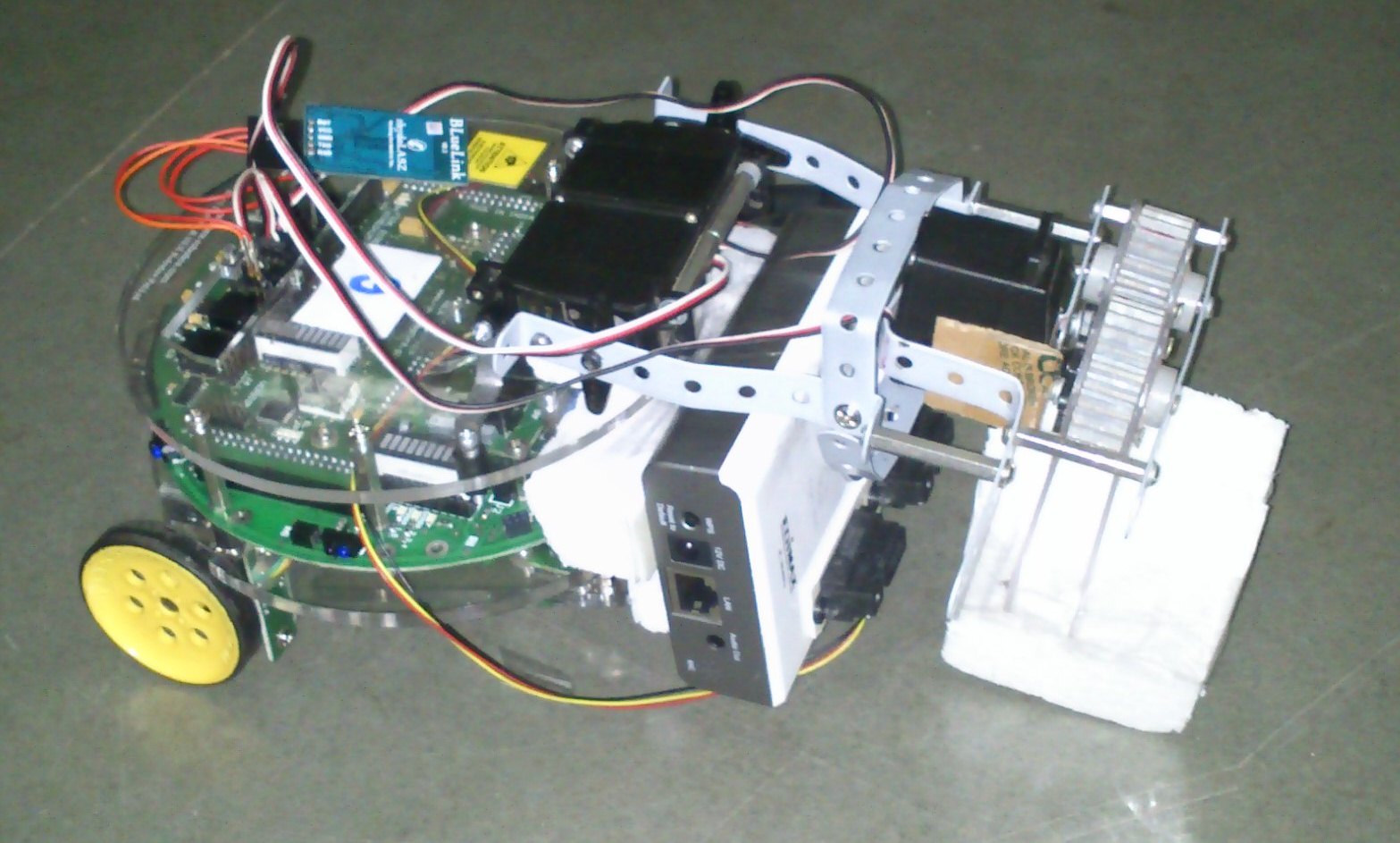
**ERTS Lab, IIT Bombay**

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

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Developer Responsibilities

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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

(i) FB5

(ii)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