

Team Project: A Surveillant Robot System

Development Plan 03/24

Little Red Team

Chankyu Park (Michael)

Seonah Lee (Sarah)

Qingyuan Shi (Lisa)

Chengzhou Li

JunMei Li

Kai Lin

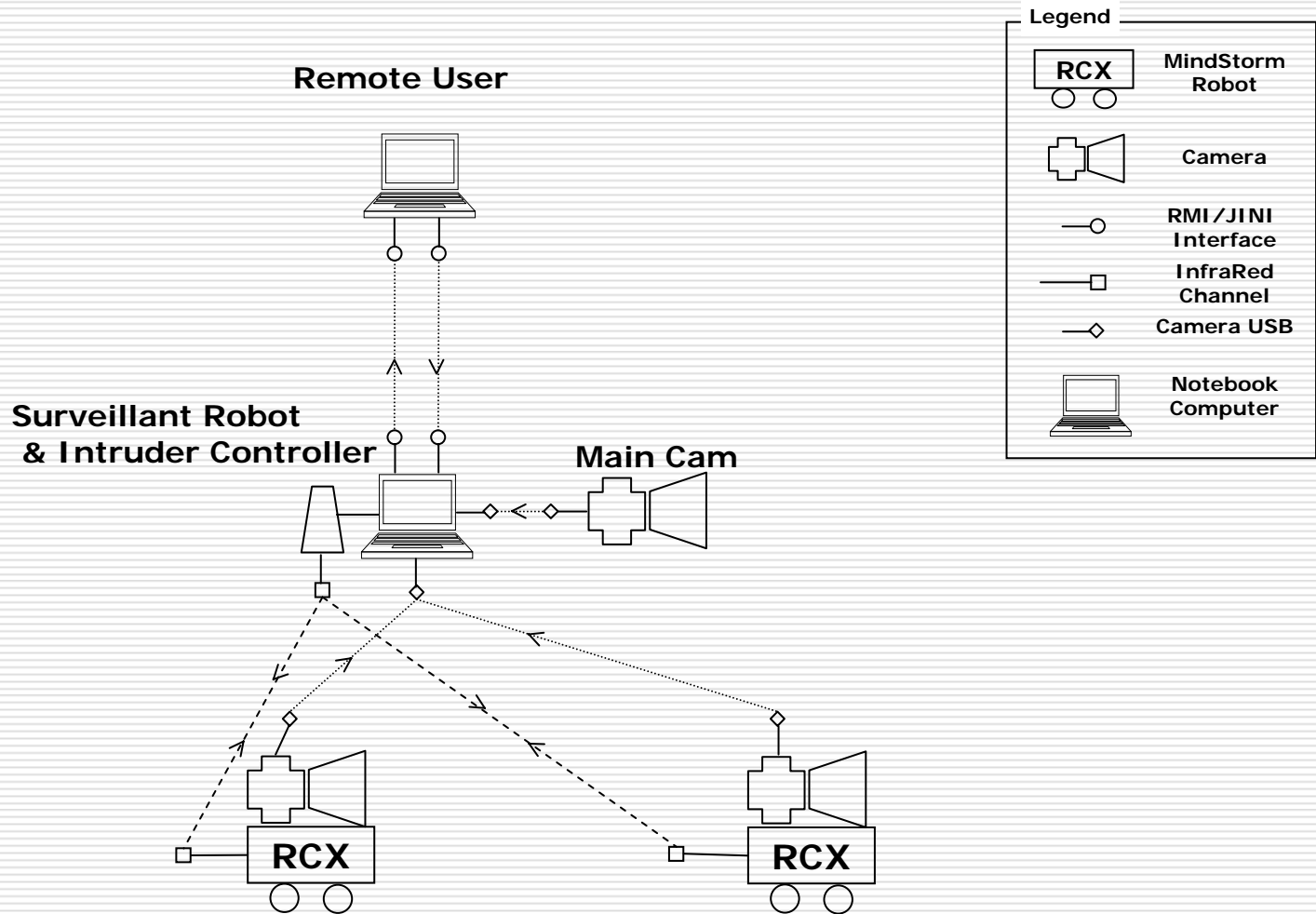


Agenda

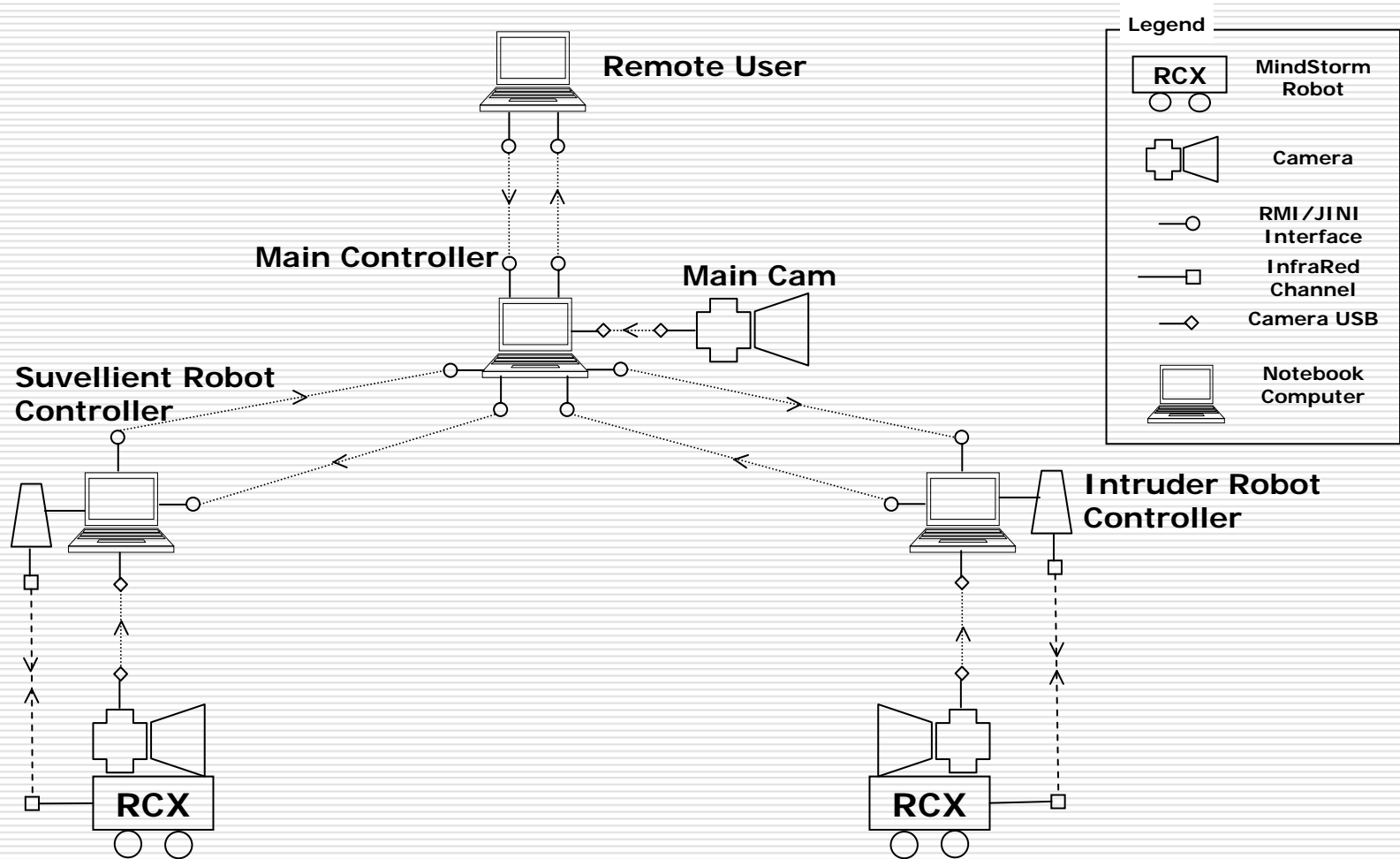
- Deployment View
- Software Design
- Task Plan
- Task Assignment
- Robot Picture
- Development Environment



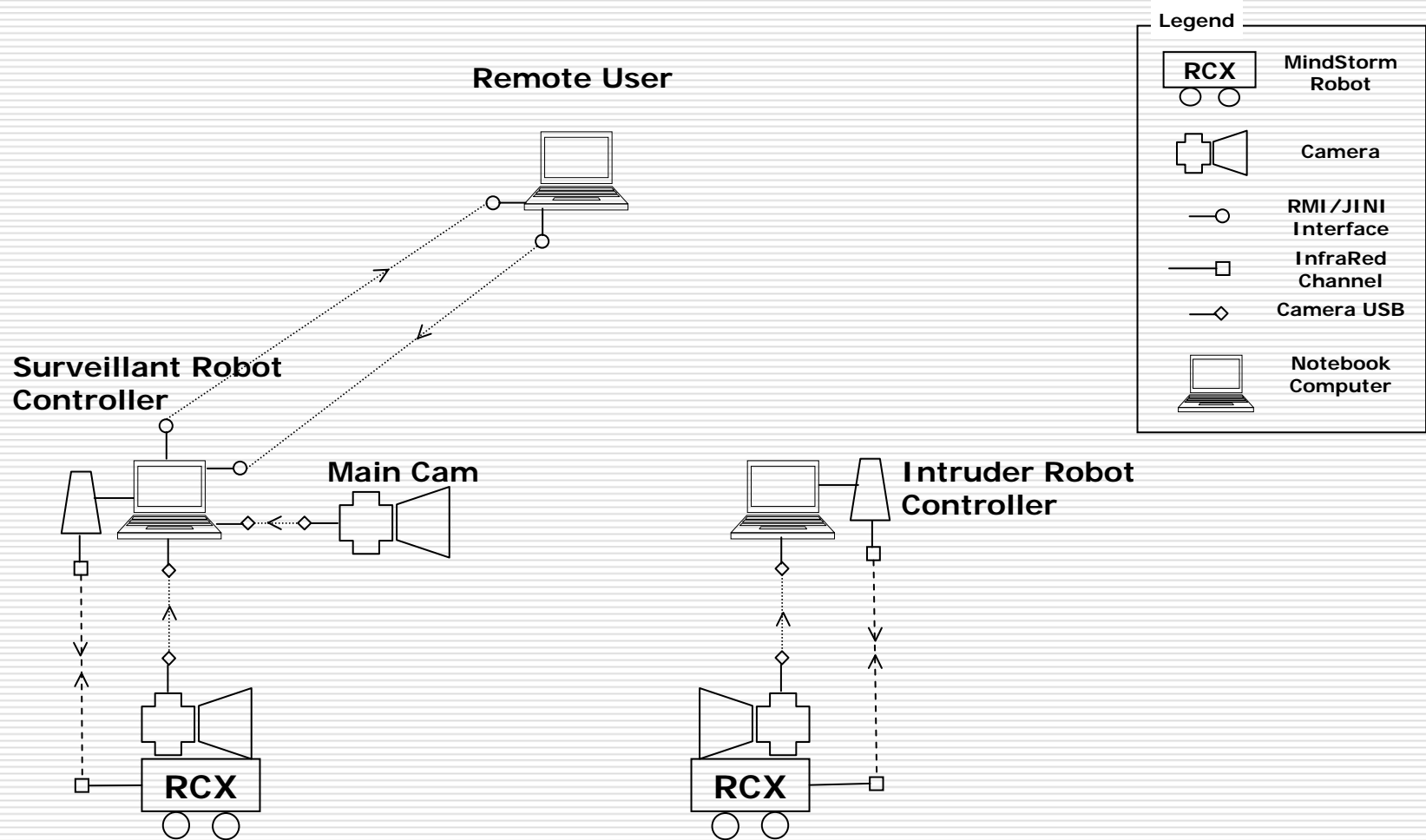
Deployment view - 1



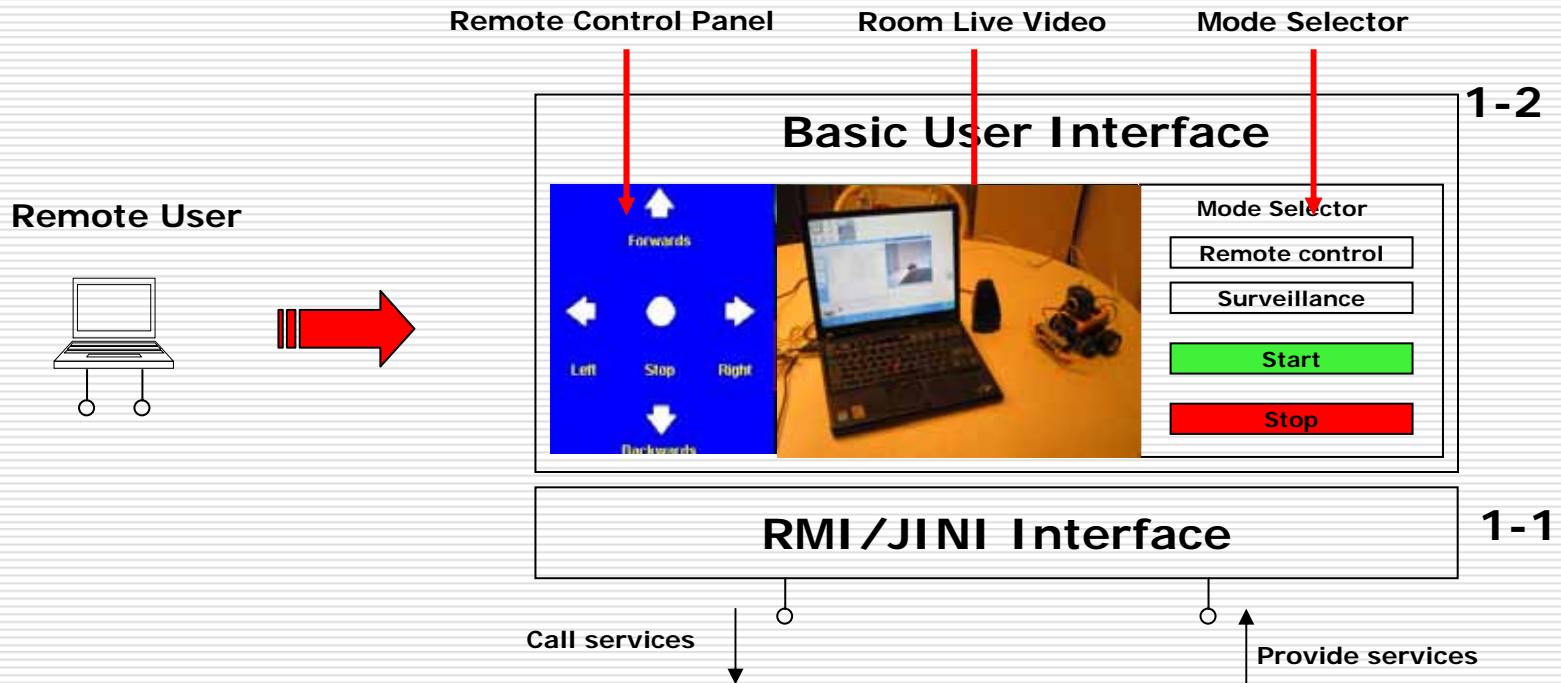
Deployment view - 2



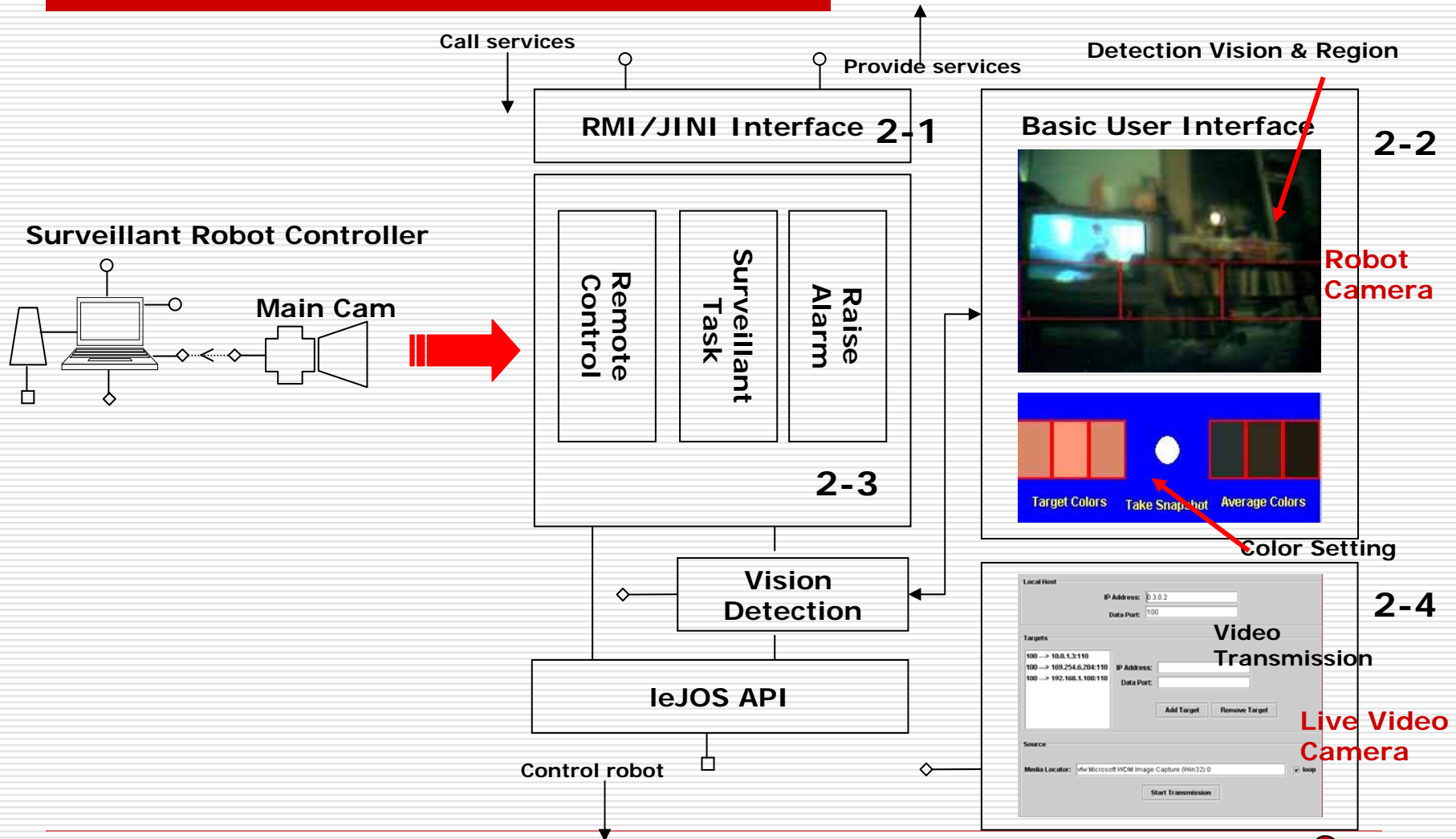
Deployment view – 3 (final)



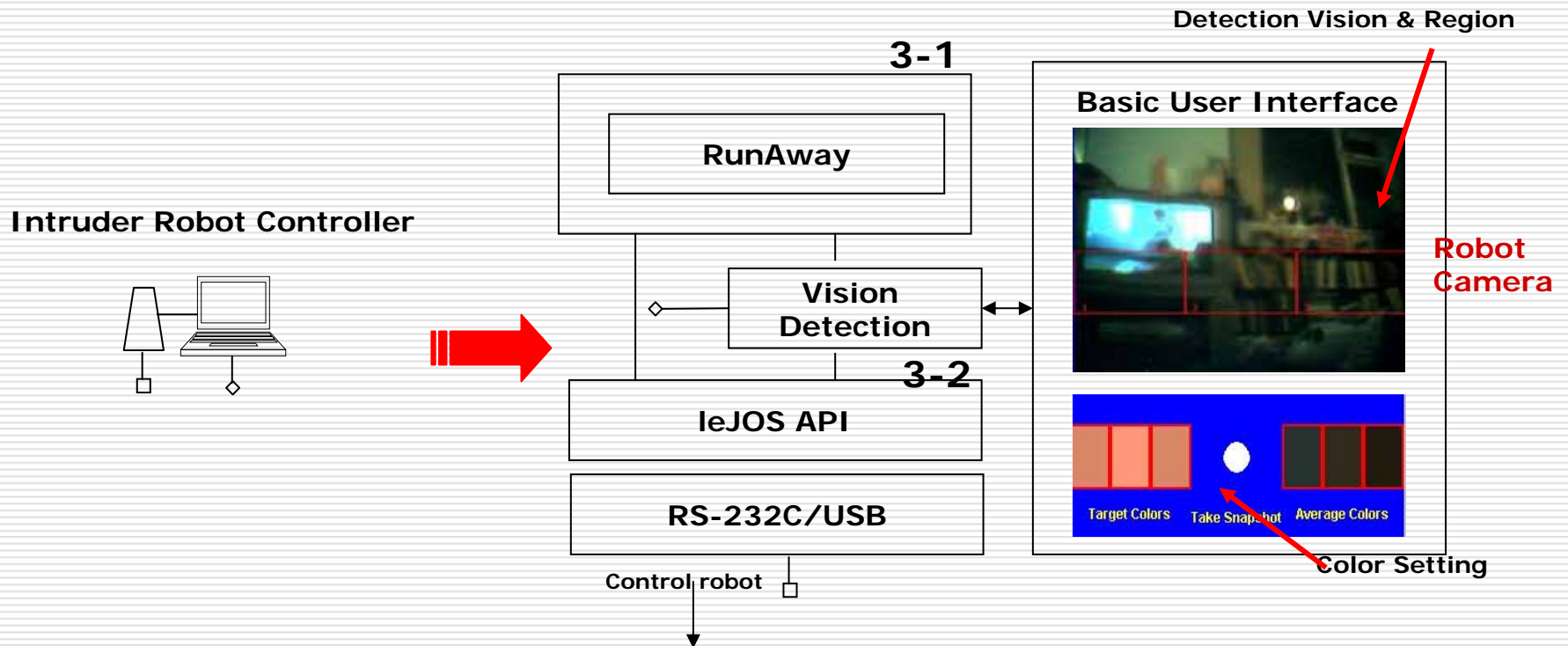
Software Design – SD#1



Software Design – SD#2

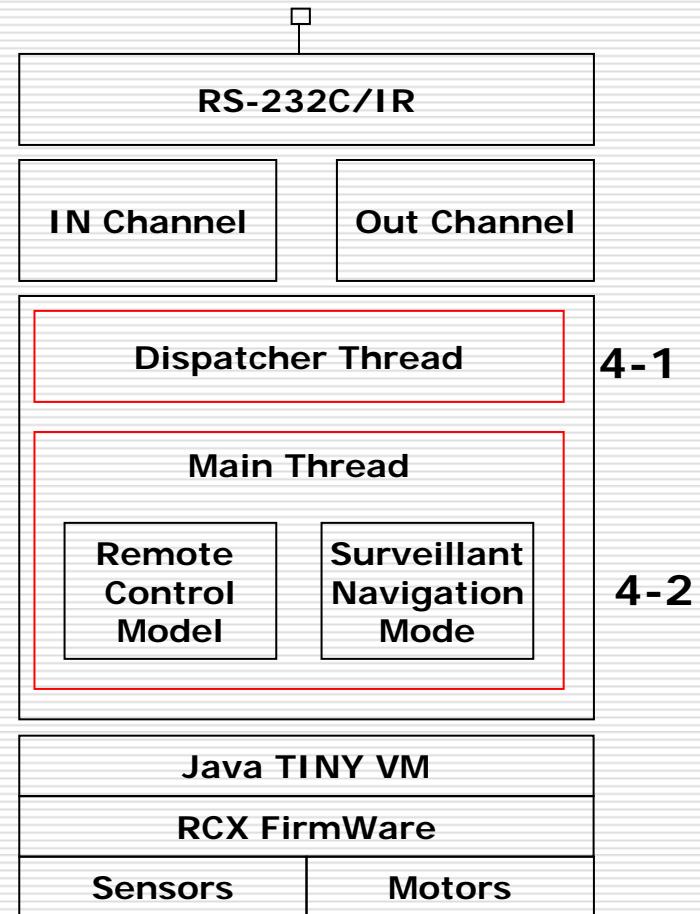
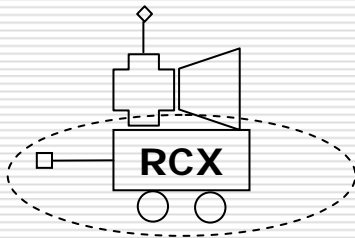


Software Design – SD#3



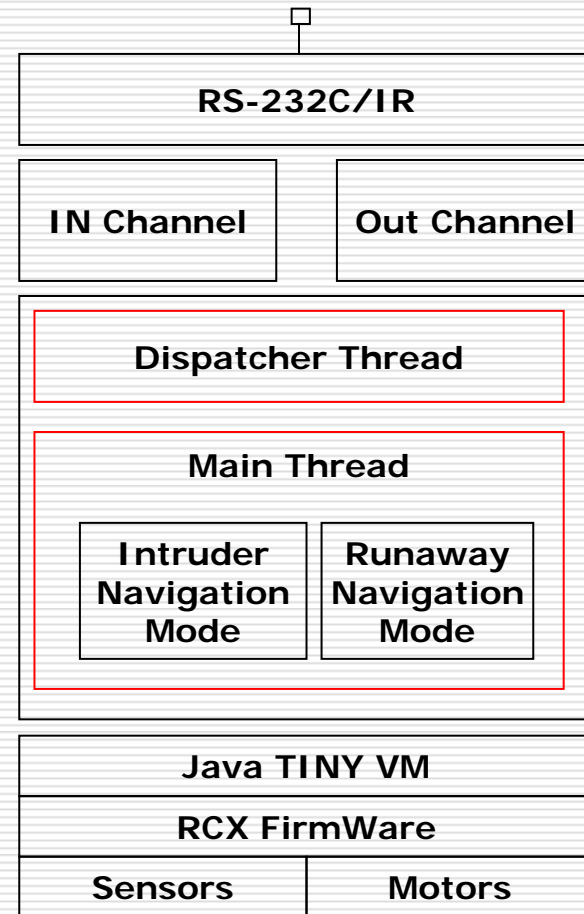
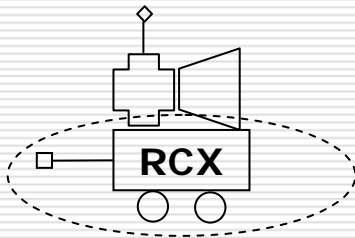
Software Design – SD#4

Surveillant Robot



Software Design – SD#5

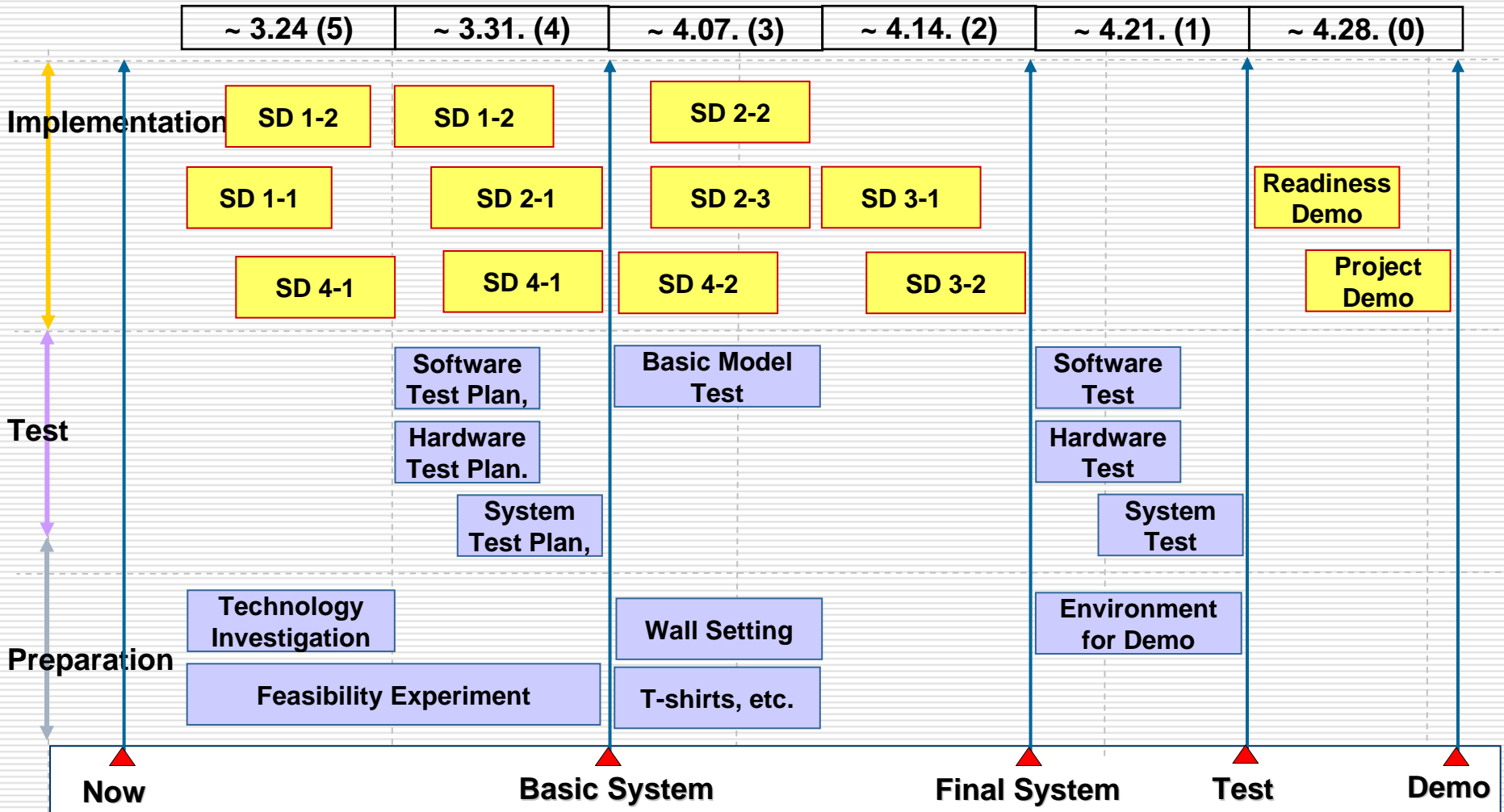
Intruder Robot



5-1



Task Plan



Task Assignment (1/3)

- Chankyu Park
 - Team Leader
 - Leading a weekly meeting
 - Technical support for volunteers
 - Implementation
 - SD#1, SD#2, and SD#3
 - Preparation
 - Feasibility Experiment
 - Technology Investigation
 - Wall setting



Task Assignment (2/3)

- Seonah Lee
 - Process Manager
 - Reviewing & Improve the process
 - Documentation
 - Implementation
 - SD#1, SD#2, and SD#3
 - Testing
 - Software/Hardware Testing
 - System Testing

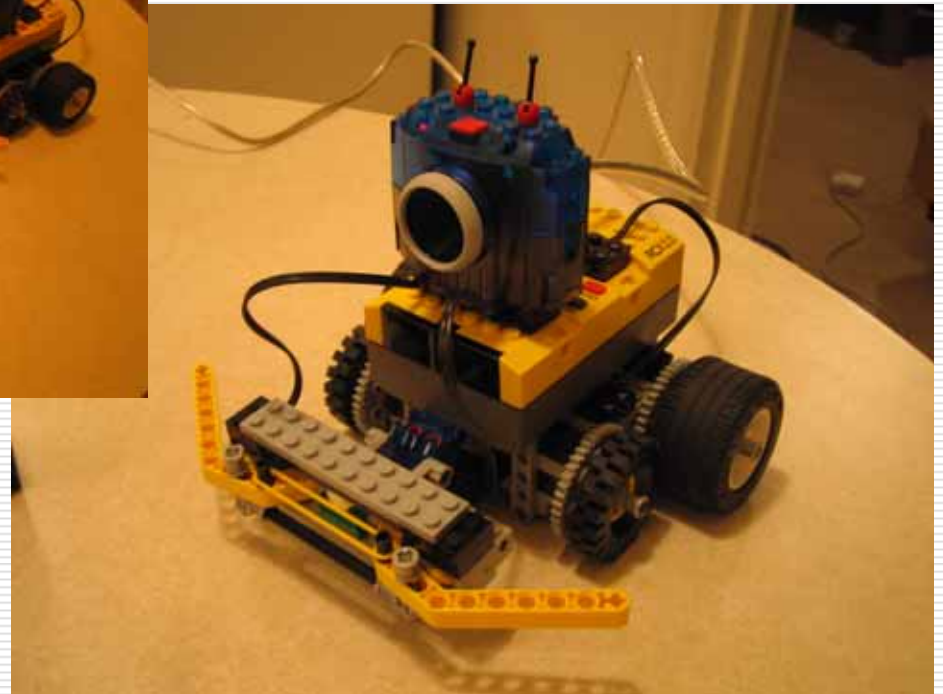


Task Assignment (3/3)

- Volunteers
 - Team members
 - Attending a weekly meeting
 - Doing at least 7 hours a week
 - Implementation
 - SD#4 and SD#5
 - Preparation
 - Reporting problems / issues



MindStorm Robot prototype



Development Environment

□ Hardware

- Lego mindstorm : production system
- Vision Commander Camera
- IR Tower,
- Notebook Computer X 3

□ Software

- leJOS 2.1.0: lego mindstorm Java API and Tiny VM
- Vision API : a part of leJOS.
- Java RMI/JINI : Remote Method Invocation.
- Eclipse : Java IDE
- JMF : Java Media Foundation for live video transmission

