

Archery Game using TI-RTOS

Group No: 21

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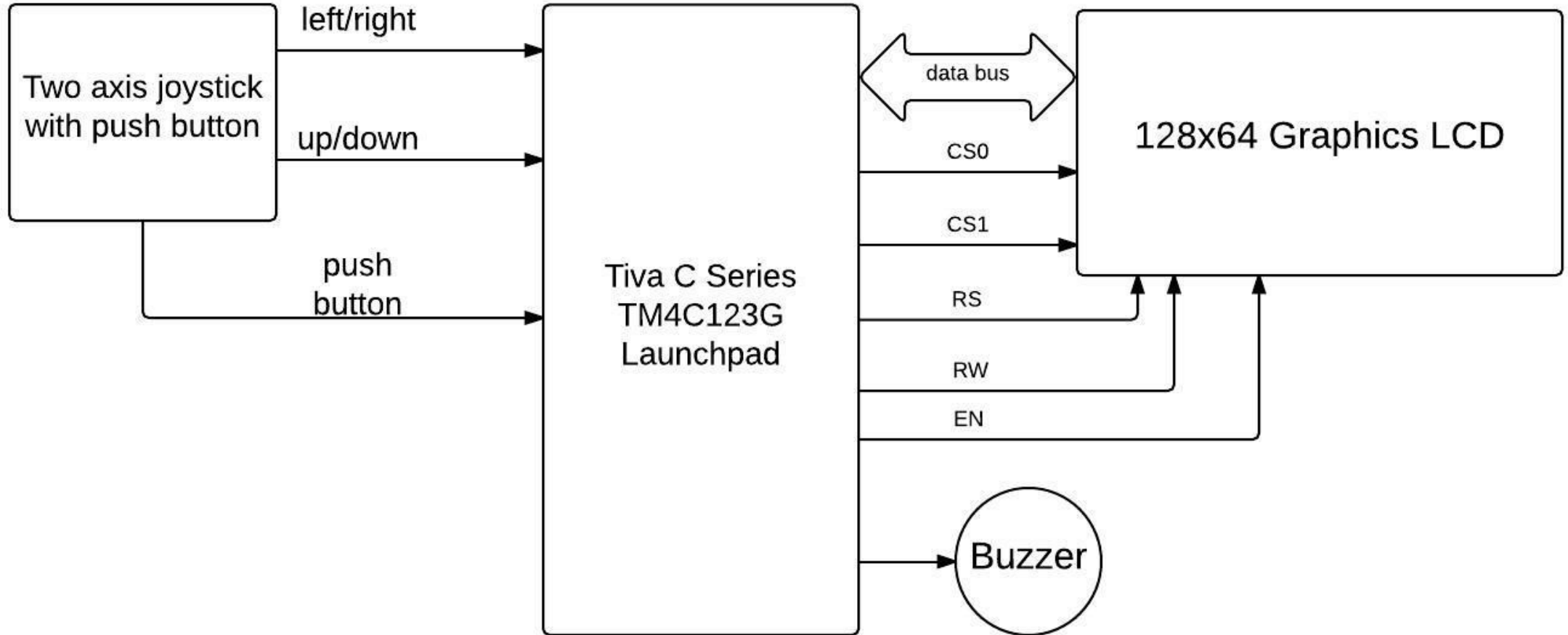
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Abstract: Interactive archery game is implemented using TI-RTOS on 128x64 graphics LCD using two-axis joystick.

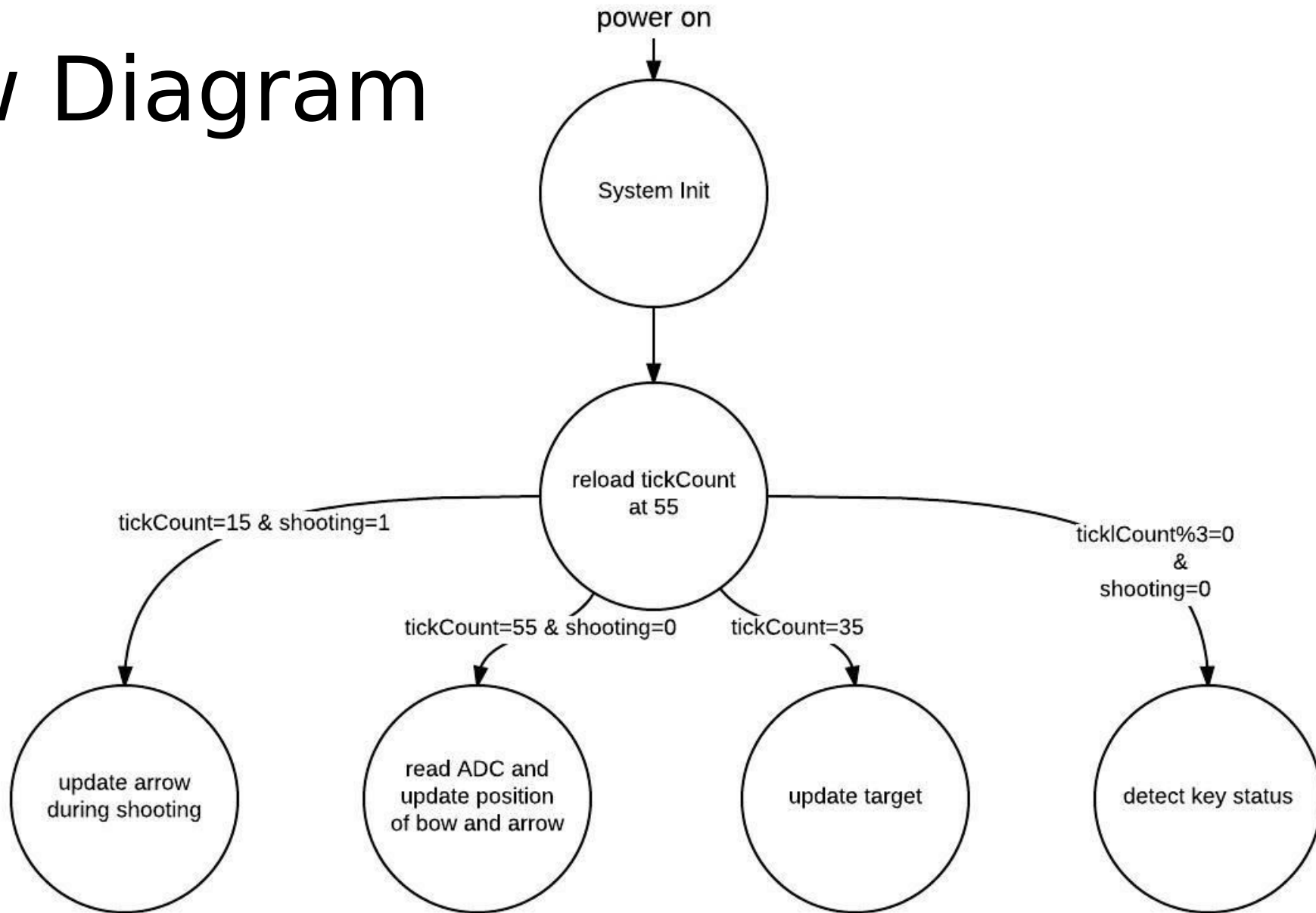
Project Objective

- Learning TI-RTOS
- Interfacing Graphics LCD to Tiva C series launchpad
- Developing algorithm for archery game

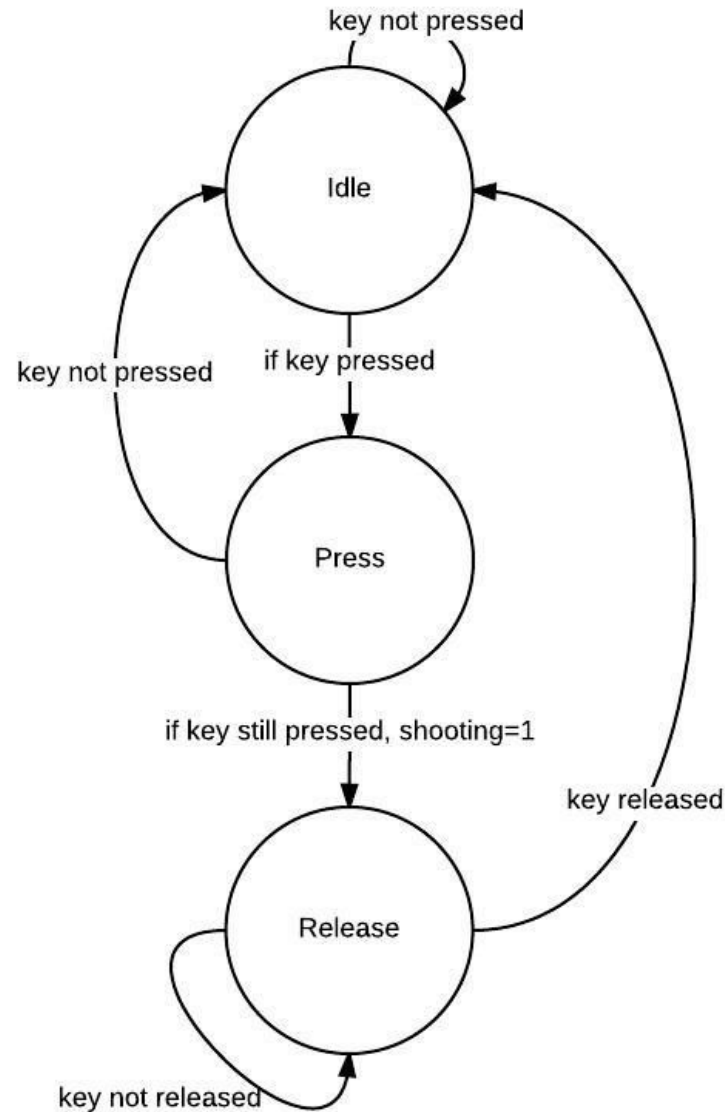
Block Diagram



Flow Diagram



State Diagram for software de-bouncing



Next State is evaluated
every 10 ms

Achievements

- Implemented archery game using TI-RTOS with a fixed scheduler for multiple periodic tasks
- Implemented selective modification of the graphics LCD on a particular section instead of writing to entire LCD for showing any change

Suggestions

- Implementation using event based RTOS