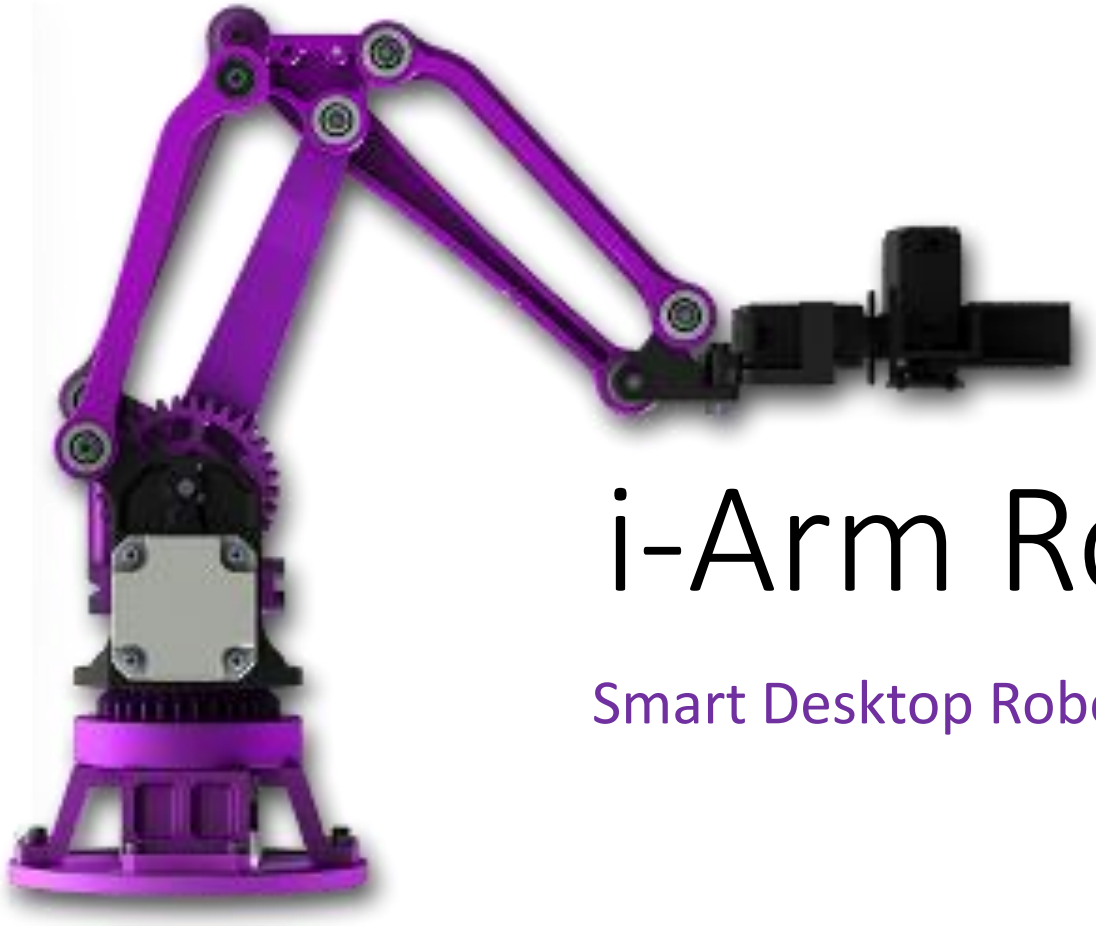
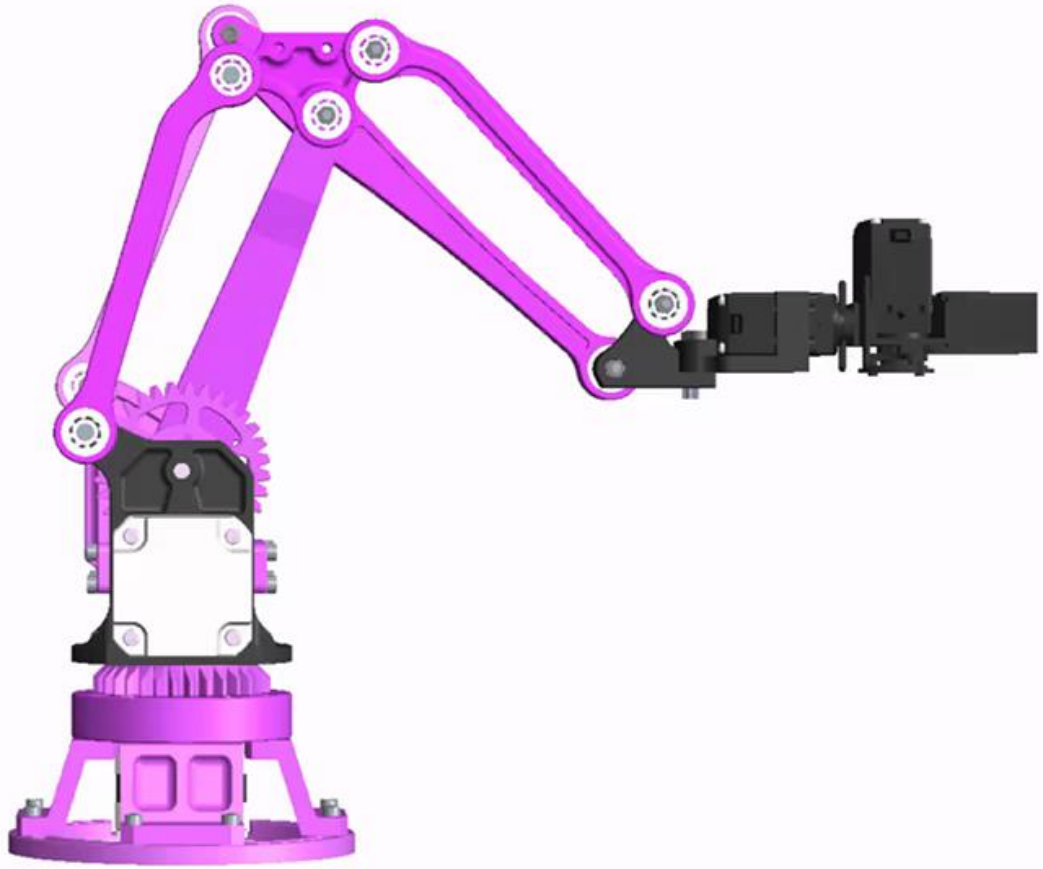


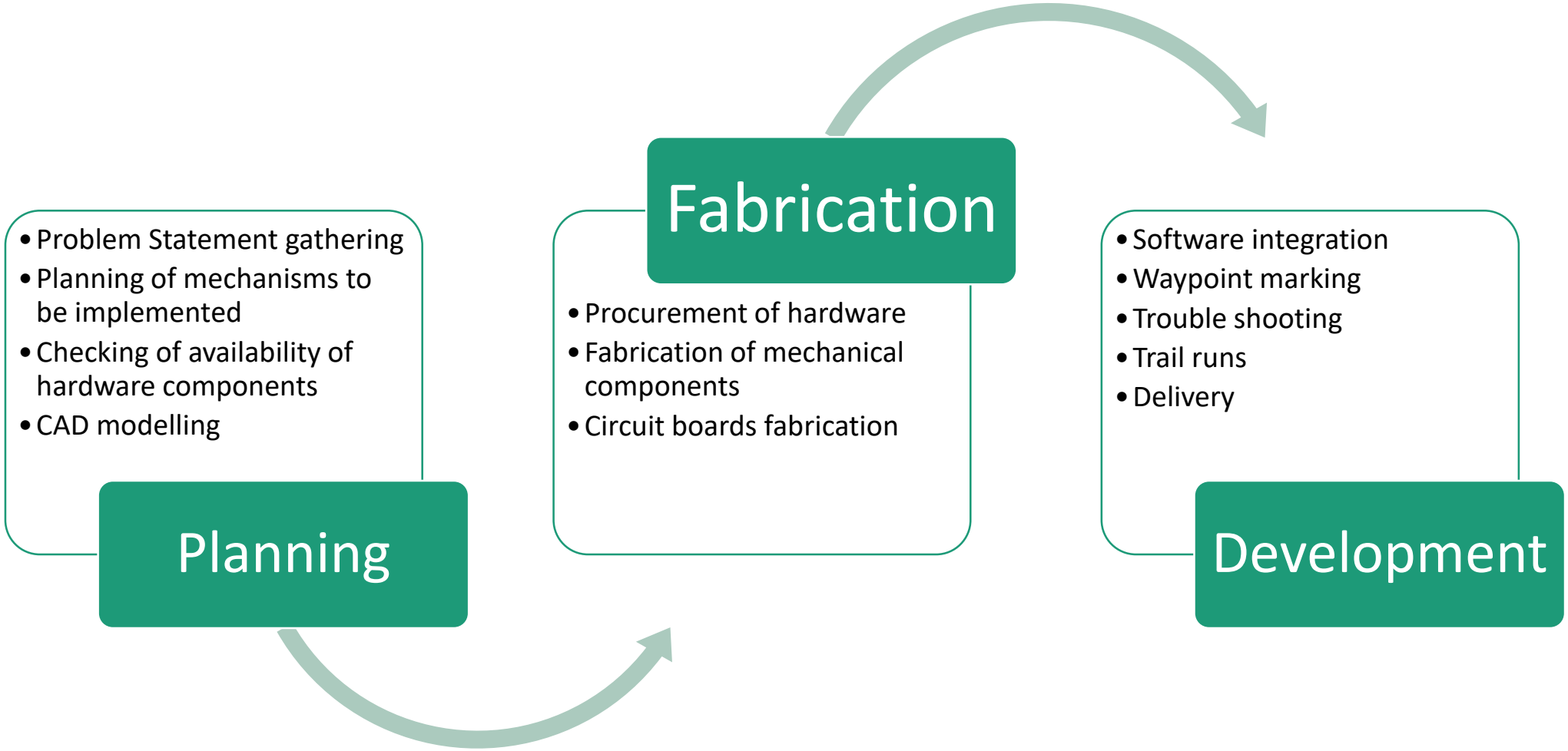
i-Arm Robot

Smart Desktop Robot Assistant

INOV ROBOTICS Pvt. Ltd.



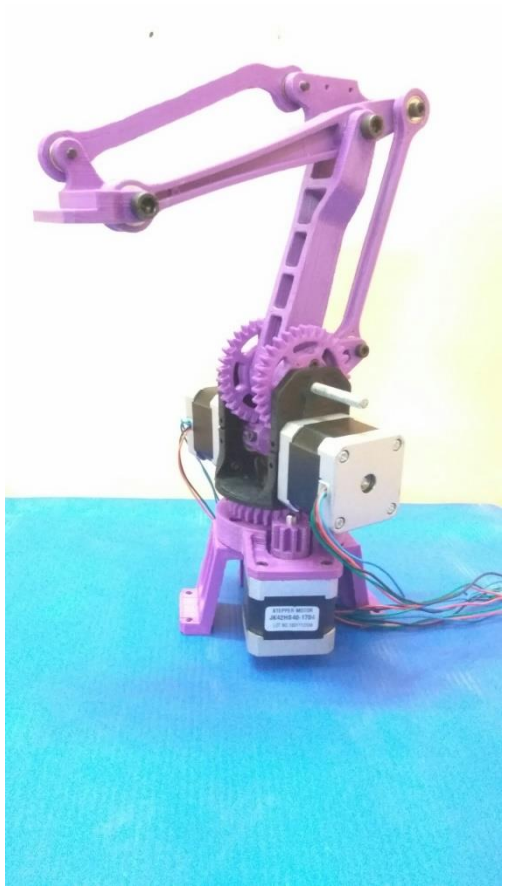
Evolution of i-Arm



Stage 1

Implementation

- i-Arm initial assembly
- Waypoint identification
- Card pick , Swipe and Place operations



Outcomes

- Card picking and placing achieved as per plan with expected accuracy

Problems Faced

- Swipe action cannot be done because of mechanical constrains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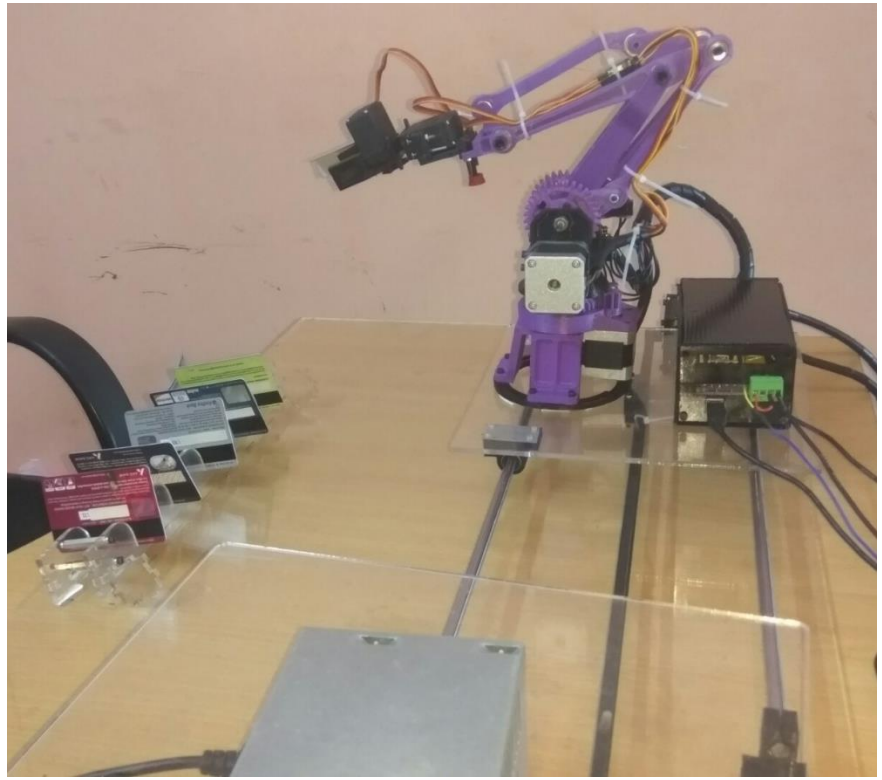
Stage 2

Implementation

- Fixing Linear rail for arm to add a degree of freedom
- Card Rack fixed parallel to rail
- POS machine table placed adjacent to arm
- Extra provisions provide near swipe and insert slots

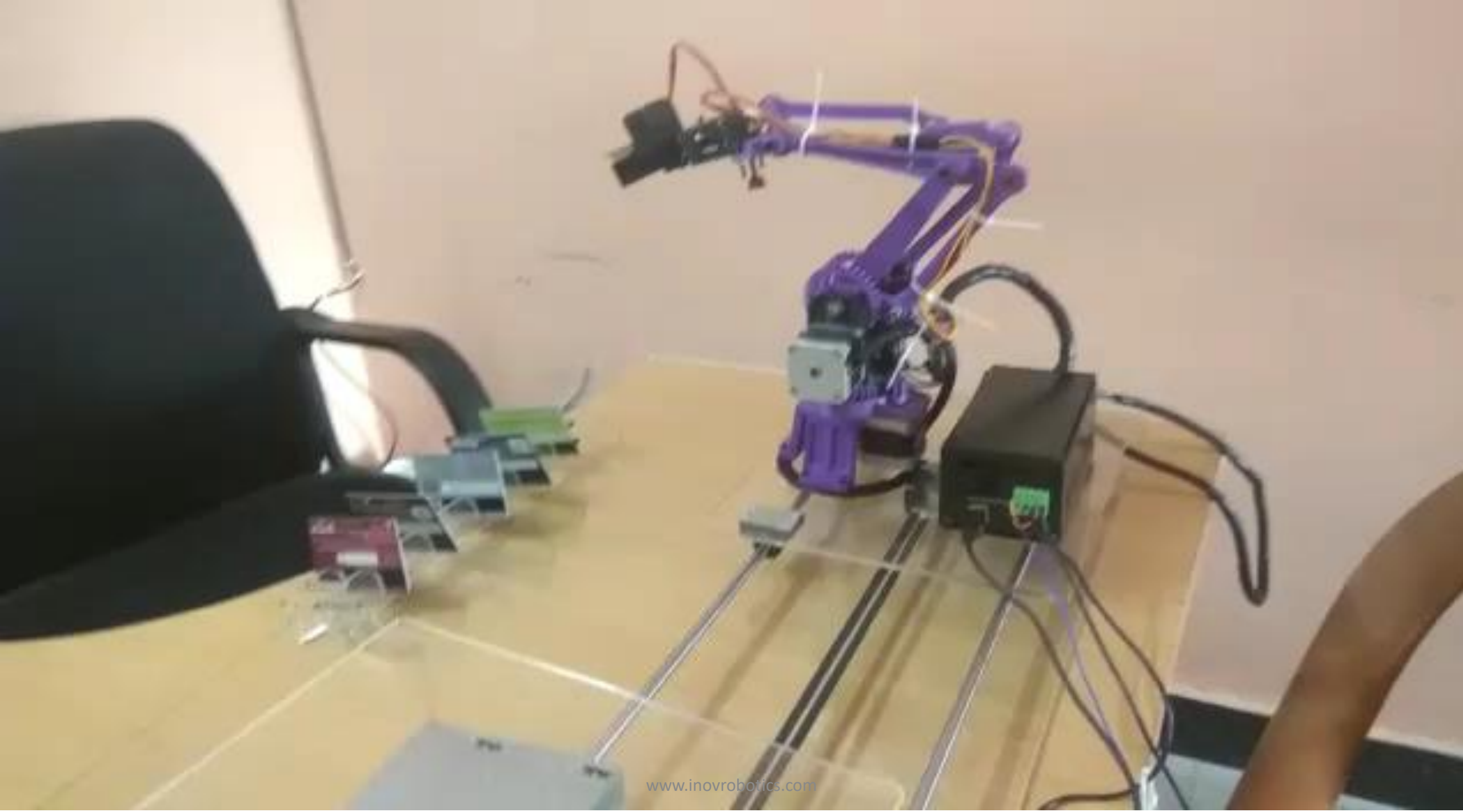


Outcome

- Card swiping and insert achieved successfully
- Process took 1.20 minutes to complete an action

Problems Faced

- Client requested changes in UI
- Setup does not supported for Verifone Device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Stage 3

Implementation

- Linear rail motion enabled for POS Device table also
- Complete reconfiguration of waypoints
- Changes done in UI

Outcomes

- Pick & place, Swipe, Insert, Signature drawing achieved successfully

Problems faced

- 2.40 minutes required to complete an action sequence

Stage 4

Implementation

- Waypoints optimized to reduce time
- Pauses between each action reduced to face time constrain

Outcome

- i-Arm completed a sequence within 1.30min