# **Demo Slides**

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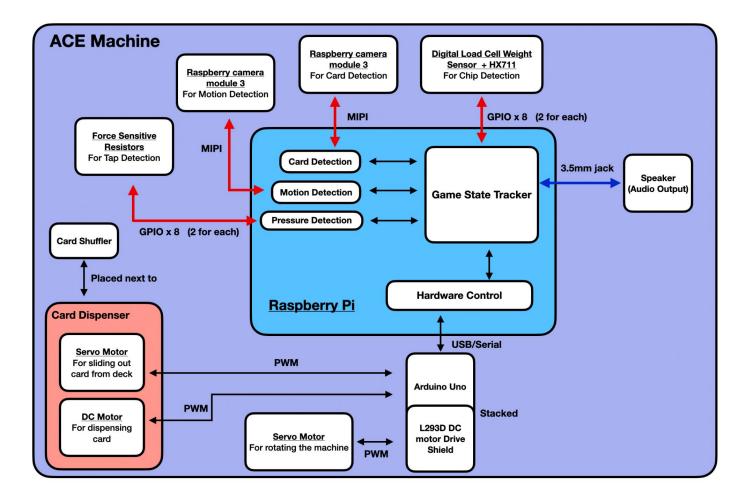
#### **Use Case Requirements/Application**

#### Problem

- Poker requires a Dealer
- Ruins fun & Reduces number of players dealer

#### Solution

- A computer-vision assisted system that will automate the dealer's role in Texas hold'em poker games.
- Minimize requirement for player interference
- Seamless game play



NUM	TASK TITLE	TASK OWNER		Week 1			WEEK 2			WEEK 3				WEEK 4				de contra	WEEK 5			WEEK 6			WEEK 7			WEEK			8			WEEK 9			WEEK 10			١	WEEK 1	K 11		
BER			т	WF	₹ F	м	τV	VR	F	м 1	w	R	F	м	τV	V R	F	м	т	w	RF	м	т	w	R	FM	Т	W	R	M	т	W	RF	м	т	WF	₹ F	м	TW	R	F	мт	w	R F
1	Hardware Components																																											
1.1	Parts selection and purchase	Andrew																																										
1.2	Coding all three motors for functionality check (if it isn't faulty)	Andrew																																										
1.3	Coding servo control for the dispensor	Andrew																																										
1.4	Coding servo control for the rotation of machine	Andrew																																										
1.5	Coding the DC motor in the dispensor	Andrew																																										
2	Computer Vision																																											
2.1	Parts selection and purchase	Martin																																						-				
2.2	Connect camera module to RaspberryPi	Martin																																										
2.3	Implement Card Detection on Raspberry Pi	Martin																																										
2.4	Train CV algorithm using trump card dataset	Martin																																										
2.5	Testing the component works properly	Martin																																										
3	CAD/ User Inputs																																											
3.1	Research	Justin																																										
3.2	Parts Selection and purchase	Justin																																										
3.3	Implementation: CAD	Justin																																										
3.4	Cutting out the machine body using laser cutting	Andrew																																										
3.5	3D printing dispenser	Justin																																										
3.6	Implementation: User Inputs	Justin																																										
4	Integration																																											
4.1	Assembling 3D printed case of dispenser with motors																																											
4.2	Integrating all parts																																											
4.3	Testing/Trial and error																																											
4.4	Integrating User Inputs																																											
4.5	Slack Time																																											

## What've been done

- Card Detection (TESTED)
- Tap Detection
- Game State Management (TESTED)
- 1st and 2nd draft of 3D-printed dispenser body
- Laser-cut Machine Body (TESTED)
- Machine rotation with servo assisted with wheels (TESTED)

# Things left...

- Motion Detection
- Completing Final Draft of Dispenser Body
- Integrating all parts into one product
- And testing...

## Plan for next three weeks

Week1:

- Test the card dispenser (draft 2) and request 3D-printing for final draft
- Train CV model with a limited light and cards on dispenser

Week2:

- Rigorous testing on the card dispenser
- Integration of all parts

Week3:

- Slack Time
- Preparation for Final Presentation, Final Report, Final Video