

#### STATUS UPDATE

- Updated project idea and parts list
   Projecting enter comprossed at
   Using Raspberry Pi instead of phone
  Parts acquired except for honeycomb
  Curront goal
   Project display onto compressed air
  Start working on interfacing Rinect
  with raspberry pi



#### USE CASES

- Use air as a higger display to make the content ratio;
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   Will preside users with a 5D experiment. This will provide a better over experience.
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   Can be used on an abstractive to large size depignament. It makes the user experience many interests of the side of the

#### INTERACTION DIAGRAM Description of the second of t

#### RISKS AND MITIGATION

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#### PLANS & BACKUPS

PLANS & BACKUPS

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- Application was endaglist, using kinest:
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valuated)

- Case forces works pearly
- Solutian: Use another across with
- Language and across a strength another across
- Case Science and a transported nation
- Solution: Project come a transported nation

#### WORKLOAD DIVISION

WORKLOAD DIVISION

First Stage

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are (canabia)

- laterione Kiner with Rangherry Pi

- deep hard plasmia

- Work with Kinert generate exceptions
(Enhan)

- Affective Rich

- While on nonmattive app and map that
generates to effects on display shown

QUESTIONS? COMMENTS? CONCERNS?



# Team Aether (#14)

## Project Architecture

Joseph, Jessica, Eshan, Gautham









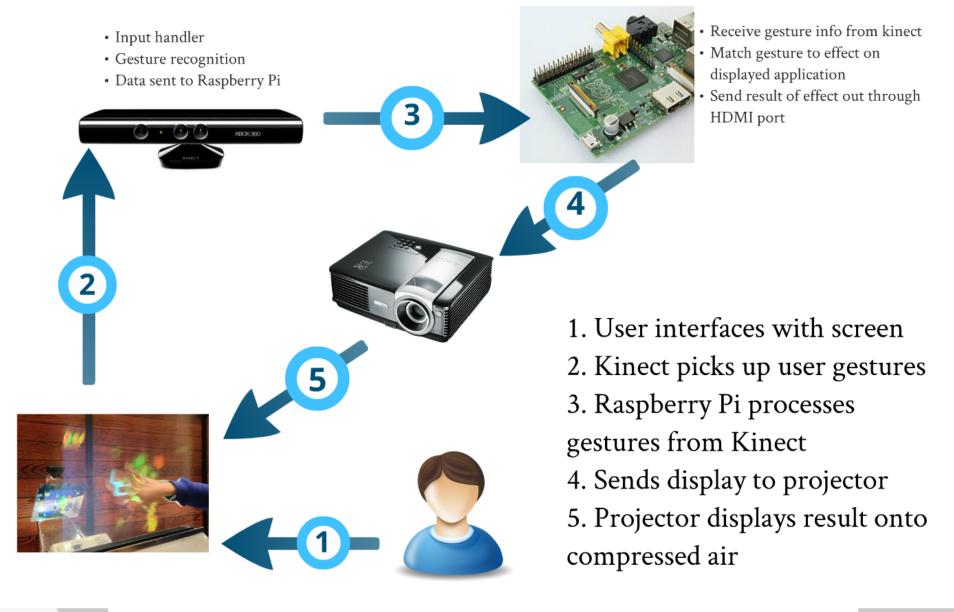


### STATUS UPDATE

- Updated project idea and parts list
  - Projecting onto compressed air
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### **ARCHITECTURE**



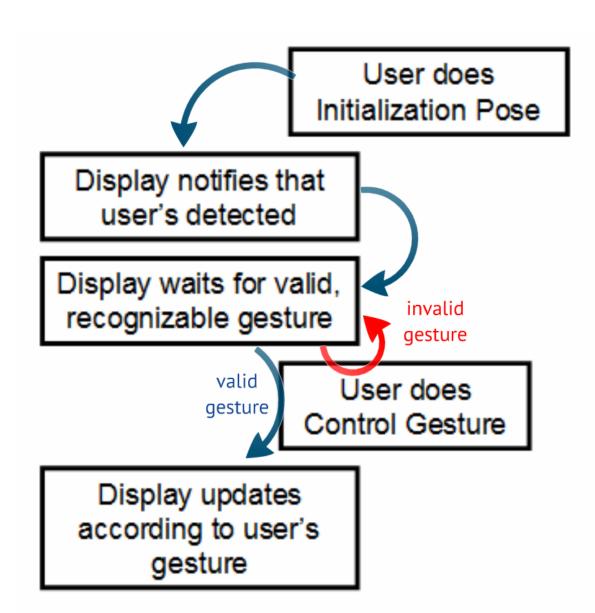


#### **USE CASES**

- Use air as a bigger display to make the content easier to see
- Will provide users with a 3D-esque image. This will provide a better user experience.
- It has a lot of potential in the advertising industry. People can see life-size 3D-esque images of models.
- Can be used as an alternative to large-size display screens. It makes the user experience more interactive and engaging.



### **INTERACTION DIAGRAM**







### **RISKS AND MITIGATION**

RISKS	MITIGATIONS
Air shooting out not dense enough to display screen	Use other substances to make air denser (ie: soap)
Lighting may be too bright	Create darker environment
Processing time from human to Kinect to Raspberry Pi	Detect less specialized motions to account for processing lag
Projector, Display, and Kinect placement unwieldy	Restrict user to optimal positions
Screen may be blurrier near top of display	Use stronger fans, or smaller display size



### **PLANS & BACKUPS**

- Plan A:
  - Application runs on display, using kinect gestures (Suggestions for application are welcomed)
- Plan B:
  - Case: Screen works poorly
  - Solution: Use smaller screen with proportionally scaled down application
- Plan C:
  - Case: Screen doesn't work at all
  - Solution: Project onto a transparent surface



#### **WORKLOAD DIVISION**

- First Stage
  - Build display by shooting up compressed air (Gautham)
  - Interface Kinect with Raspberry Pi (Joseph and Jessica)
  - Work with Kinect gesture recognition (Eshan)
- Afterwards:
  - Work on interactive app and map the gestures to effects on display shown



QUESTIONS?

COMMENTS?

CONCERNS?

