

Hotel Room of the Future

Team Members and Roles:

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Problem Statement

Not much feedback to hotel about customer status

Time wasted at check-in can lead to revenue loss for the casinos/resorts

Rooms can lack modern tech and delayed upkeep from unknown guest schedule

What modern hotels truly lack is the feeling of being at home, where you feel comfortable and in control.

All hotel rooms feel the same, like a standard box with all of the amenities you need, but not enough of the ones you really want.

As technology advances and homes become smarter and more efficient, hotels lack behind in smart device integration and ease of access to guests.

What hotels really need is to provide the user a way to feel like they are at home, and that their experience really matters.

Solution

- Human in the loop feedback
- Personalized Temperature control
- Direct-to-room access
- Biometric/mood based lighting and music
- Robotic assistant for room management, companionship, and security.

Why is this a consumer robot?

Integrates smart home technology, online media streaming, and artificial intelligence to create a user controlled robot. Utilizes facial recognition, cloud computing, wireless communication, wearable technology, server-side integration to perform a task for the user.

Demo

- Show your prototype (even if you only have a sketch)
- Walkthrough your mock screens (esp. if it's a user interface)
- Demo product/service (if your allotted time does not permit a live demo, use video)
- Insert videos and pictures of prototype system

NB: If you don't have a demonstrable prototype, substitute e.g. videos, photos, graphs, etc

Business Model

Show/Explain how you make money

- Revenue per customer
- Pricing model

Provide non-invasive customer feedback

Generates revenue based on reduced “trivial” tasks by guests (increases spending time at hotel/resort) and increased room service usage.

15% Monetary value value increase to hotel room.

Increases customer happiness

Increased customer happiness results in customers that are more willing to pay for higher cost rooms and services.

NB: Perhaps you might know of similar product/services (e.g. Echo, Amazon Prime Air) and/or a company’s business model (e.g. Apple Store’s pay-per-app). Cite these to help justify your answers above

Wynn and Encore to have Amazon Echo in every hotel



Execution Plan

- Marketing Strategy: How to reach customers?
- Finance Projection:
 - What are costs and burn rate?
 - When do you make profits?
 - How big can you grow?
- Plan and Timelines

Idk, that's a lot to think about for a 2 day project

Summary and Thank You

- Particular Winter School talks and workshops used
- Information and/or inspiration from CES
- Non-Workshop tools (e.g. OpenCV) used (if any)
- Other acknowledgements

Google Smart Home workshop

Any good lectures

SAMSUNG America (Gear S3)

Smarthome technology at CES

Google Cast SDK, Cozmo SDK, nest python library (REPLACE WITH ACTUAL NAME)

Drones and Autonomous Systems Lab and Dr. Paul Oh