

M2-02: CAD Pit Stop: Refining Racing Car Digital Assets

Ado Kurugu, Brennan Murray, PJ Nielson

Sponsor: Abhimanyu Sharotry



TEXAS STATE

Goals

Develop a robust hierarchical system to easily track to look up all parts and components, as well as ensuring all CAD drawings are up to date and organized.

Why is this it important?

- Supports Documentation and Compliance
- Facilitates Collaboration
- Version Control and Consistency
- Streamlines Future Modifications and Expansion

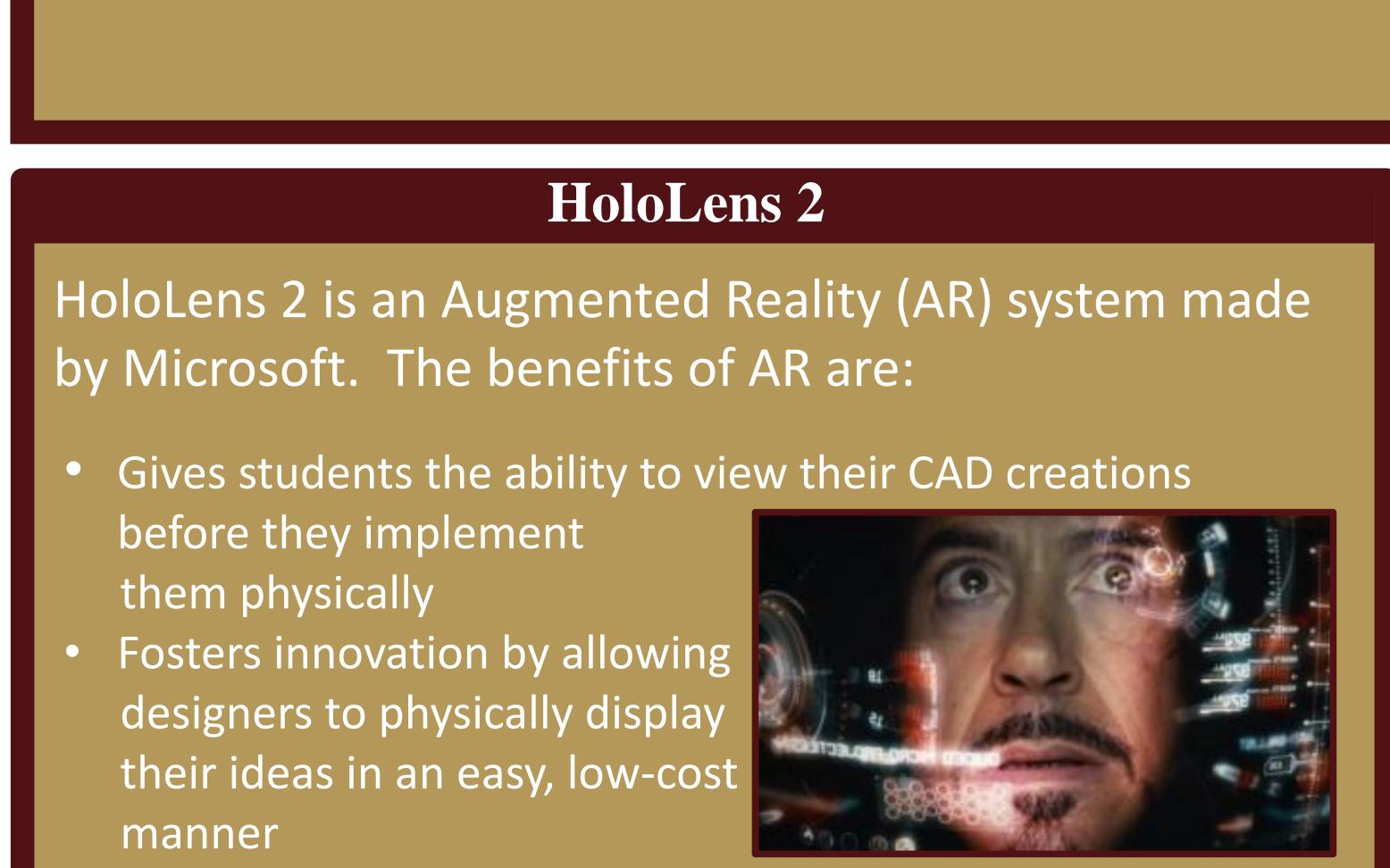
Standardization — Sub Assembles

Standardization improves efficiency, data quality, and ease of cooperation in a project. In every industry, standardization allows for the reliable implementation of new parts; playing a vital role in the creation of a collaborative final product.

Our 7 Top Level Subassemblies:

- AERO Aerodynamics ENGE – Engine
- MISC Miscellaneous and Panels
- CHAS Chassis/Frame ST&S Steering and
- DRTR Drivetrain ELEC – Electrical

Suspension



Avoids incompatibility problems in the future

Tree and visual example **Master Assembly** 02.ST&S Steering and Suspension 02.ST&S.SUSPN Isolated Suspension System 02.ST&S.SUSPN.SHTOP Shock Top Subassembly

Database

We incorporated our data to Excel and Microsoft Access. Future collaborators will be able to view and add to improve the Bobcat Racing database.

Meet the Team

Future plans for:

- PJ Nielson Apprentice Gunsmith for JTA in Martindale, TX.
- Brennan Murray Will begin working at Lockheed Martin in Fort Worth, TX
- Ado Kurugu Will begin his full-time position at Flextronics in Austin, TX

