CALIBRATION OF LAB EQUIPMENT USING AUGMENTED REALITY

Merih Kaner
Integrated Engineering
Tallinn University of Technology
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Purpose of the project:
  - To create a platform where user can enter instructions and match them with markers to be viewed later in AR
  - Initially for laboratory equipment, but it can be extended further.
  - Currently it is at the prototype stage and usable on phones and tablets.
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Used Development Tools:
  - Unity
  - Vuforia
  - Firebase
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Landing screen
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Entering user input and selecting corresponding marker with a dropdown menu
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Recognition of a marker and showing corresponding instruction
CALIBRATION OF LABORATORY EQUIPMENT USING AUGMENTED REALITY

- Further steps of the project:
  - Currently it is just a prototype.
  - User experience and User Interface will be improved.
  - It can be developed further to be used on smart glasses such as HoloLens.