# Group M1.03 – VR & Digitization Experience



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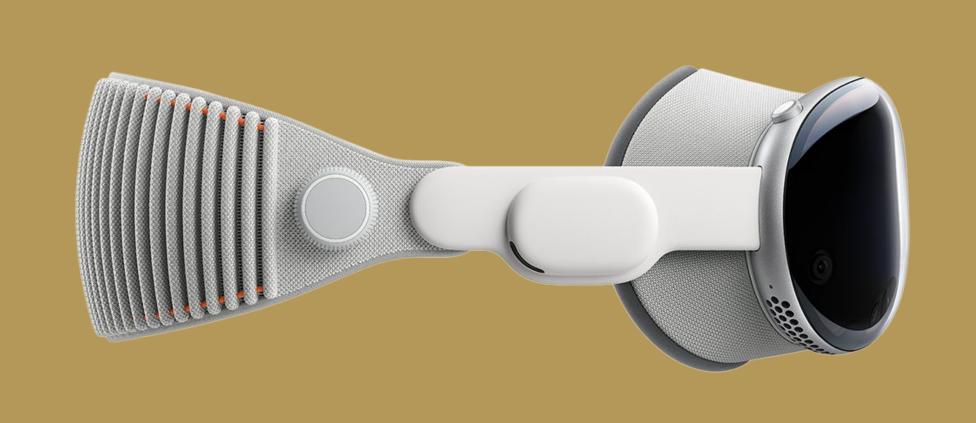
## Project Description

The AR Haas 3-Axis CNC Machine Tutorial is an interactive training tool designed to simulate the operation of a Haas 3-axis milling machine covering machine startup, shutdown, and tool and workpiece setup through guided modules and practice exercises.

# Technology Used







Apple Vision Pro

## Project Need

Need for effective training:
Modern manufacturing requires
safe, efficient, and cost-effective
methods for upskilling operators
on advanced equipment.

AR Tutorial: Provides an immersive, interactive environment for learning.

**Key benefits**: Students can learn basic operations without the risks or costs of live machine time.

# Advantages

- Safety: Reduces the risk of injury and machine damage during early training.
- Cost Efficiency: Minimizes wear, material waste, and downtime on physical CNC machines.
- Accessibility: Allows learners to practice anytime, anywhere, without requiring dedicated shop access.
- Scalability: Standardizes instruction across multiple users and sites.
- Readiness: Prepares operators with hands-on familiarity before transitioning to real equipment, shortening ramp-up time.

#### Steps

- Take picture of machine controls and print on wall.
- Get the Apple Vision Pro to recognize as picture.
- Record and edit videos.
- Using Xcode, make a code for the application.
- Implement on Apple Vision Pro.
- Add videos, models and tips on operation.

#### Meet the Team



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