MAKING OF SEIP

Software Engineering in der industriellen Praxis (SEIP)

Multimedia is not just for gaming... ;-)

HARDWARE: Lecturer

- **One.de Gaming PC**
  Video/Audio Production
- **Apple iPad Pro**
  Content Presentation
- **Logitech BRIO 4K (5x)**
  Cameras (1x Lecturer, 4x Room)
- **Beyerdynamic M 90 Pro X**
  Microphone
- **Beyerdynamic DT 770 Pro**
  Headphone
- **Elgato Greenscreen**
  Virtual Background Effect
- **Elgato Key Light (4x)**
  Greenscreen Lightning
- **Elgato Key Light Air (2x)**
  Lecturer Lightning
- **Elgato StreamDeck**
  Production Control

SOFTWARE: Lecturer/Video

- **OBS Studio**
  Video/Audio Mixing
- **Head-Up Display Server (HUDS)**
  Head-Up Display Server
- **HUDS-HUD-Training**
  Head-Up Display for Training
- **ManyCam**
  Video/Audio Mixing (Room Cameras)

SOFTWARE: Lecturer/Audio

- **Cantabile**
  Audio Processing (VST Host)
- **Acon Digital DeVerberate**
  Audio VST Plugin (Reverberation Reduction)
- **Waves NS1/WMS**
  Audio VST Plugins (Noise Suppression)
- **Waves Sibilance**
  Audio VST Plugin (De-Esser)
- **Waves F6**
  Audio VST Plugin (Equalizer)
- **BlueCat Dynamics**
  Audio VST Plugin (Expander, Compressor)
- **Tokyo Dawn Records Limiter**
  Audio VST Plugin (Limiter)

SOFTWARE: Cloud/Server

- **YouTube Live Event**
  Video-Stream Broadcasting
- **Mosquitto**
  MQTT Message Queue
- **HUDS-HUD-Training**
  Head-Up Display for Training

SOFTWARE: Website/Client

- **Vue.js**
  Webpage Rendering Engine
- **YouTube Player**
  Video-Stream Player
- **HUDS Pad**
  Head-Up-Display Client

NETWORK: Protocols

- **RTMP**
  Video/Audio Ingest
- **HLS (YouTube-Variant)**
  Video/Audio Playout
- **MQTT**
  Attendee Feedback/Control