

# GenAI for Technical Design

**The Movie!**

# Behinds the Scenes

## Chatbot Generated Script

- Describing the video
- Script for the narrator

### ChatGPT Prompt

Please create a story board (images and script) for a video that illustrates the vision of Generative AI applications in technical design like mechanical, architectural or civil engineering. The video should make it clear how Generative AI could offer a new users interface paradigm that could potentially replaces the Graphical User Interfaces (GUIs) which have dominated CAE software (like CAD, CAM, FEA and CFD) for decades. As well as suggesting the productivity benefits for designers the video should also acknowledge the potential downsides, such as loss of human accountability for safety critical designs.

### ChatGPT Response:

Here is a **complete storyboard + script** for your **vision video** on *Generative AI for Technical Design*, as you requested — I've kept it suitable for an **audience of engineers, industry, and policymakers** (so suitable for EU workshop / funding audiences, industry partners, and academic researchers).

---

#### **Storyboard: "The Future of Technical Design: Generative AI & Conversational Interfaces"**

**Target duration:** ~3 minutes

**Style:** Clean, professional, thought-provoking

**Tone:** Visionary, balanced, critical thinking encouraged

**Audience:** Engineers (Mech, Civil, Arch), CAE professionals, funders, industry, policy

---

#### Scene 1: Opening

**Image:** Montage of iconic CAE software screenshots (CAD, FEA, CFD, CAM interfaces from the 1990s–2020s) → GUI heavy, complex toolbars

**Narration:**

*"For over four decades, the technical design of the physical world has been dominated by Graphical User Interfaces."*

---

#### Scene 2: Current Pain Points

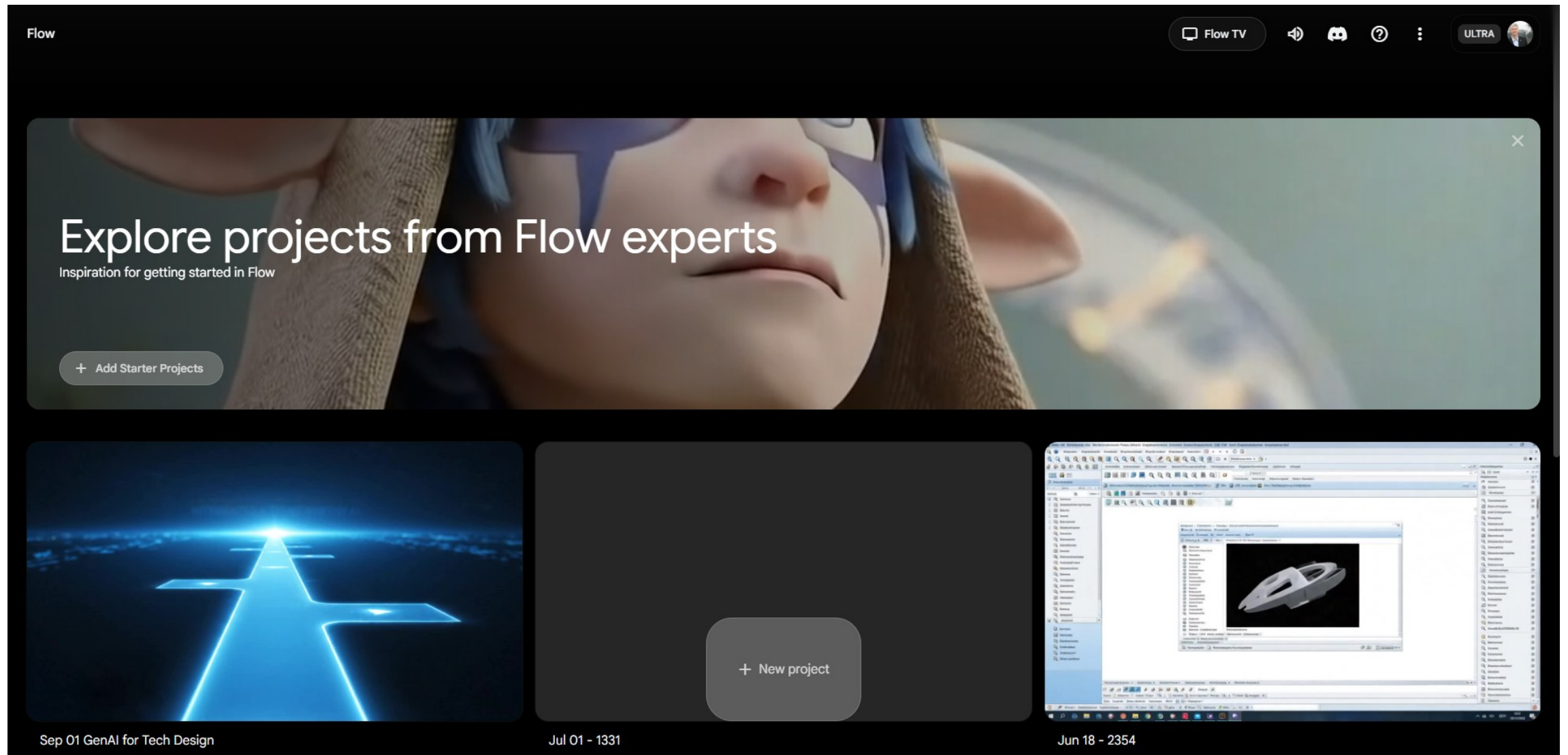
**Image:** Designer at workstation struggling with complex CAD menus and simulation setup screens, switching between multiple software windows

**Narration:**

*"Each tool is powerful, but fragmented. Workflows are often manual, error-prone, and difficult for new users to master. Engineering knowledge is locked behind expertise in software, not in the physical principles of design."*

---

# Google's Flow



# Each Prompt creates an 8 second video

- Image: Designer speaking to a conversational AI assistant next to a 3D model; captions of example prompts: *"Generate a lightweight truss for this span."* *"Simulate wind loads at 50 km/h."* *"Optimise this part for additive manufacturing."*

Narration:

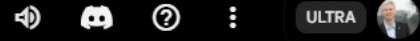
*"Instead of clicking through menus, designers can now converse with their tools — asking questions, setting constraints, exploring design alternatives — in natural language."*





# Flow's Scene Builder supports the joining of 8s clips

Flow > Sep 01 GenAI for Tech Design > Scenebuilder



0:00 / 2:08



Text to Video

Veo 3 - Quality

Generate a video with text...



# The result!

