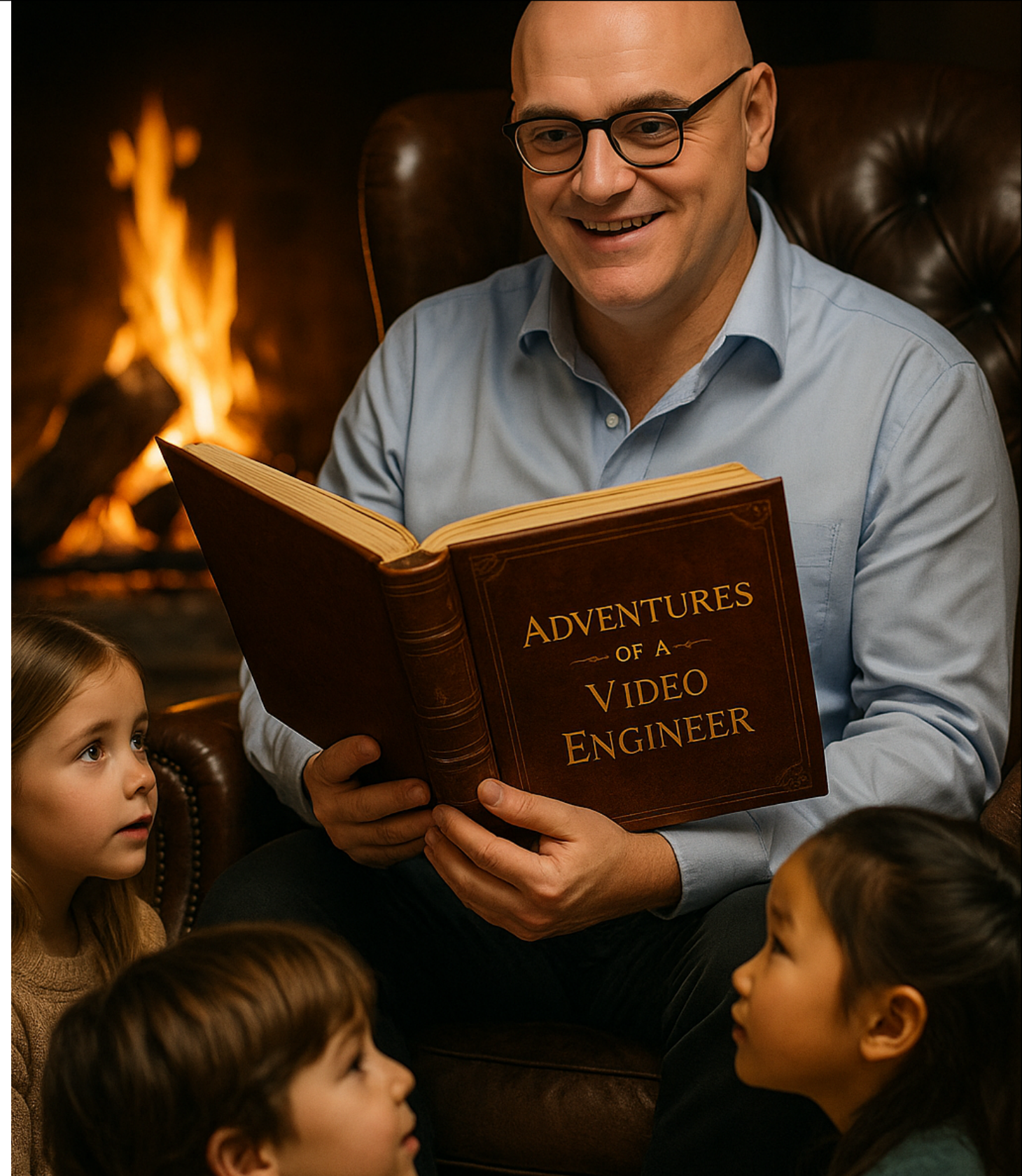


The Hero With a Thousand Faces

SOLVING REAL
VIDEO ENCODING
CHALLENGES
WITH THE RIGHT
NETINT QUADRA
FOR THE JOB

ALEXANDER LESCHINSKY

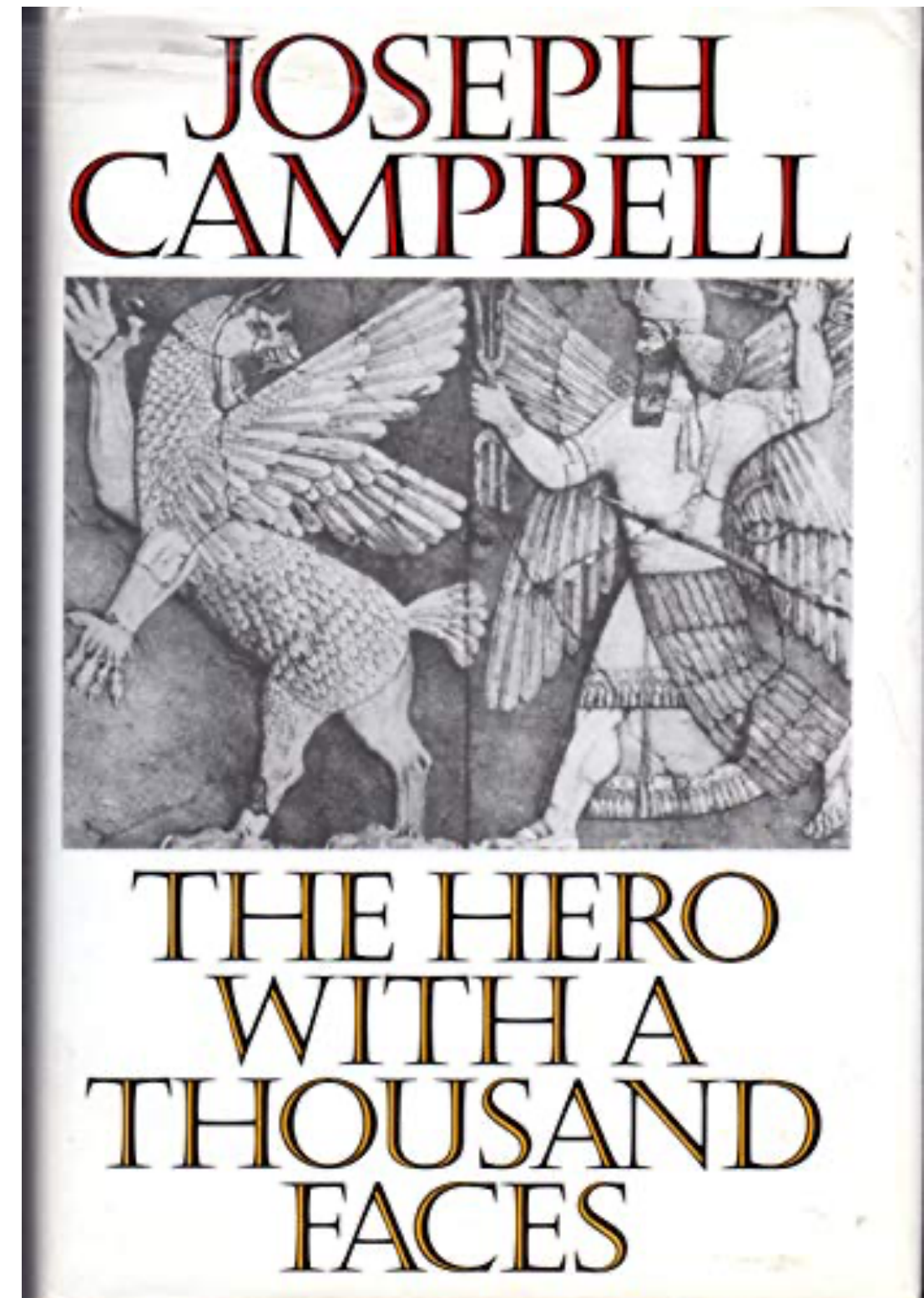
Chief Story Teller at G&L



JOSEPH CAMPBELL

1949

The Twelve Steps of a Hero's
Journey

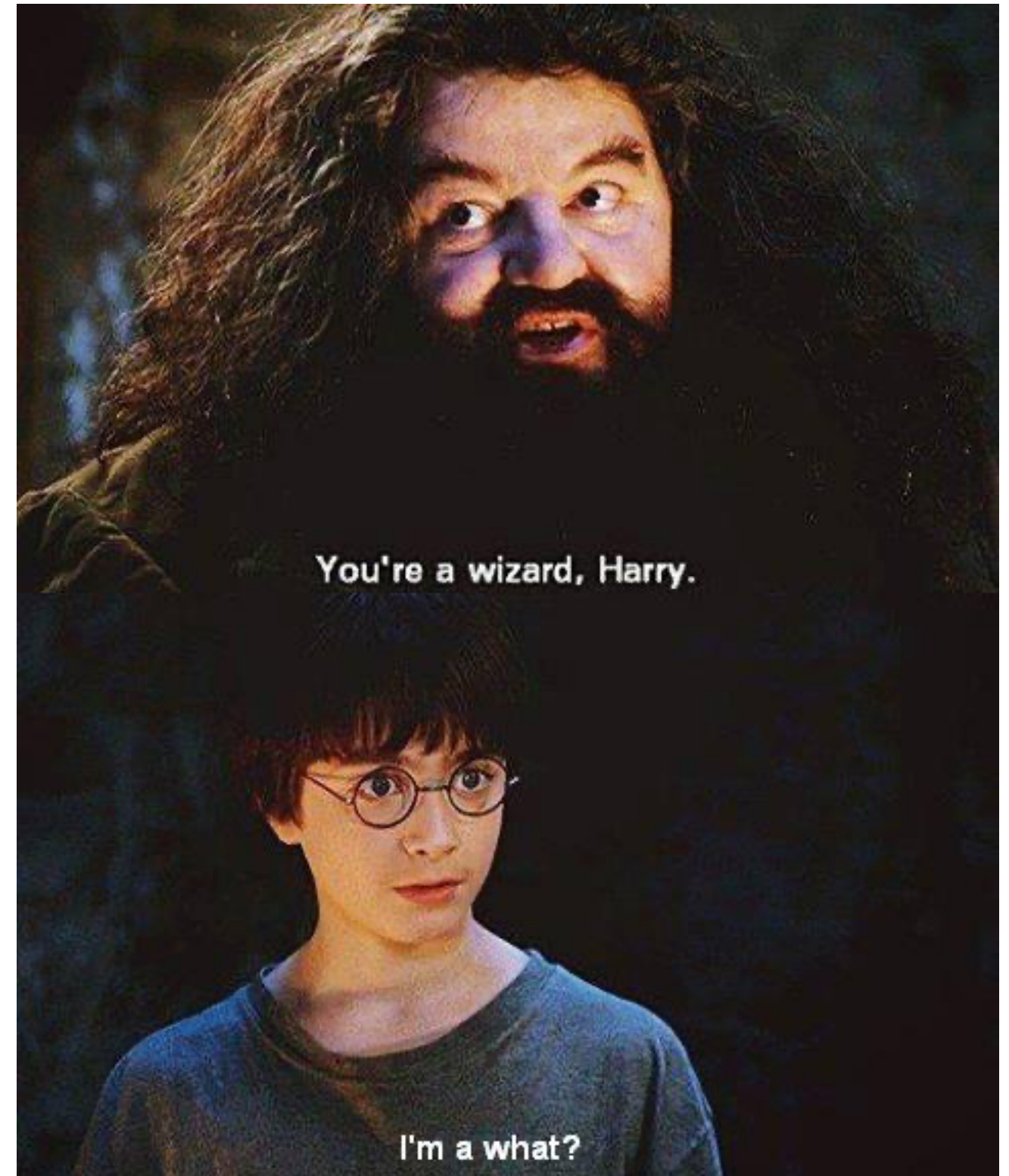


12 <-> NOT FROM COLOGNE

1/12: THE ORDINARY WORLD



2/12 CALL TO ADVENTURE



3/12 REFUSAL OF THE CALL



4/12: Meeting the Mentor



5/12: CROSSING THE THRESHOLD



6/12: ALLIES, ENEMIES, AND TESTS



7/12: APPROACHING THE DRAGON'S DEN



8/12: THE ORDEAL



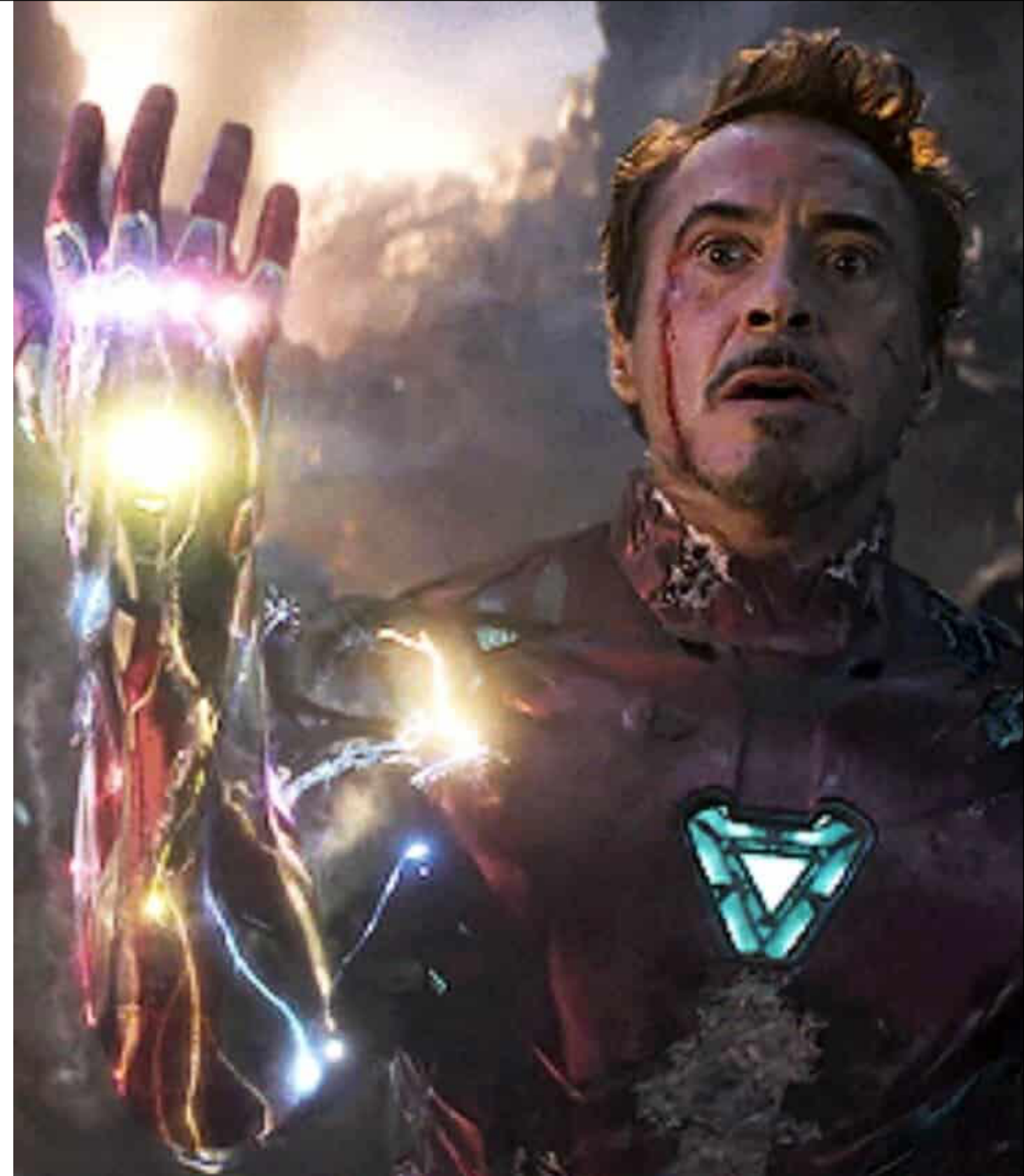
9/12: SEIZING THE TREASURE



10/12: THE ROAD BACK



11/12: RESURRECTION / TRANSCENDENCE



12/12: RETURN WITH THE BOON



Back to IBC 2025, 1.F74

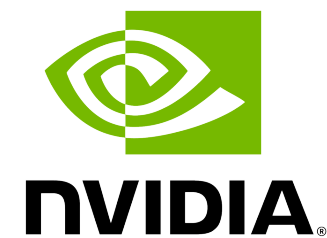
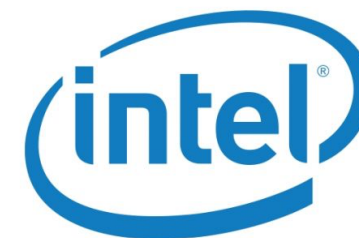
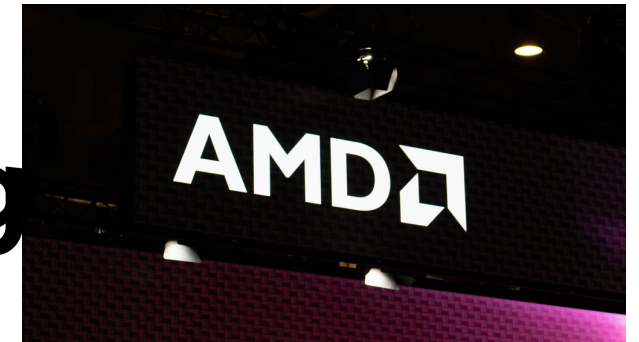
THE ORDINARY WORLD

Day-to-day encoding tasks of a systems integrator and managed service provider.



AWS Elemental MediaLive

Converts redundant live inputs into two streams of multiple compressed outputs, based on output group configuration

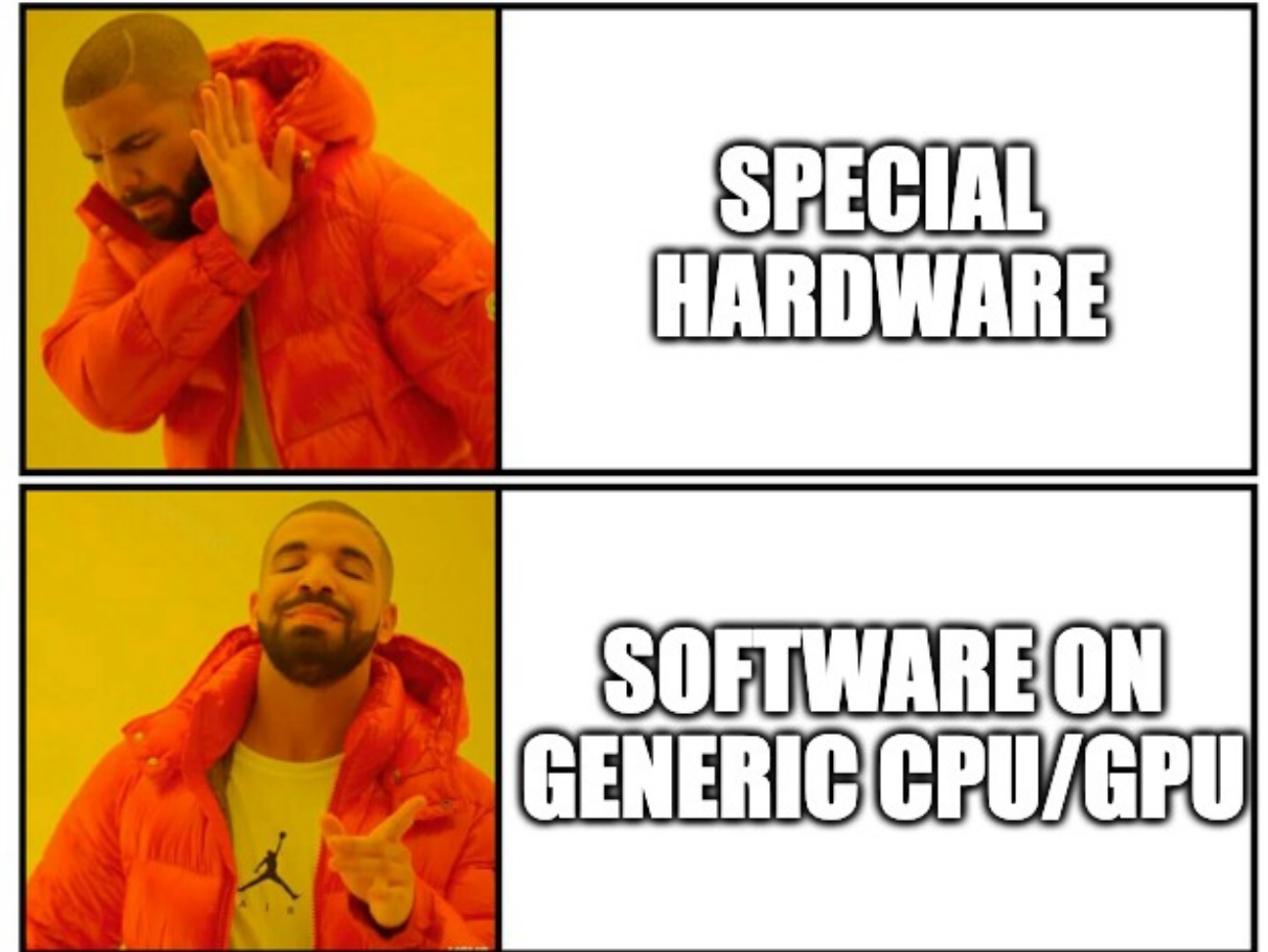


THE CALL TO ADVENTURE

Sir Adrian Roe & Knight Steve
Strong of id3as, masters of video
engineering dragons



REFUSAL OF THE CALL



imgflip.com

MEETING THE MENTOR(S)



Joshua Zhu
CEO



Tao Zhong
Founder

CROSSING THE THRESHOLD

 **NETINT** DOCS T408 / T432 [Quadra](#) [BitStreams](#)

Introduction

Installation 

Libxcoder 

Using the SDK

Using the Repos

FFmpeg 

Using the SDK

Using the Repos

Gstreamer 

 > Installation > Libxcoder > [Using the SDK](#)

Version: v5.3.1

SDK Installation

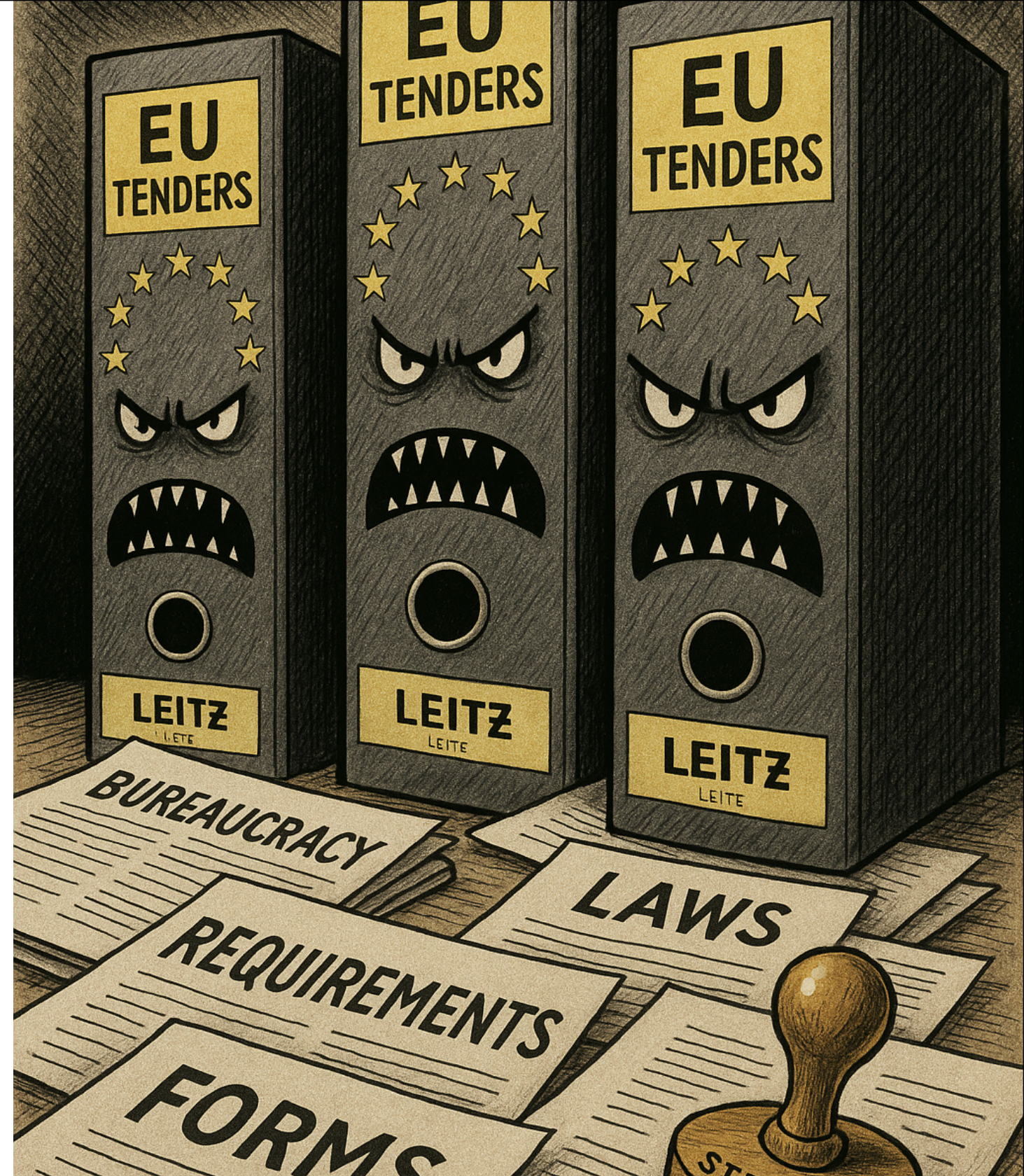
Current Release

SDK Release: v5.3.1
VPU Firmware: v5.3.1
Supported Versions: 4.3.1, 5.1.2, 6.1, 7.1

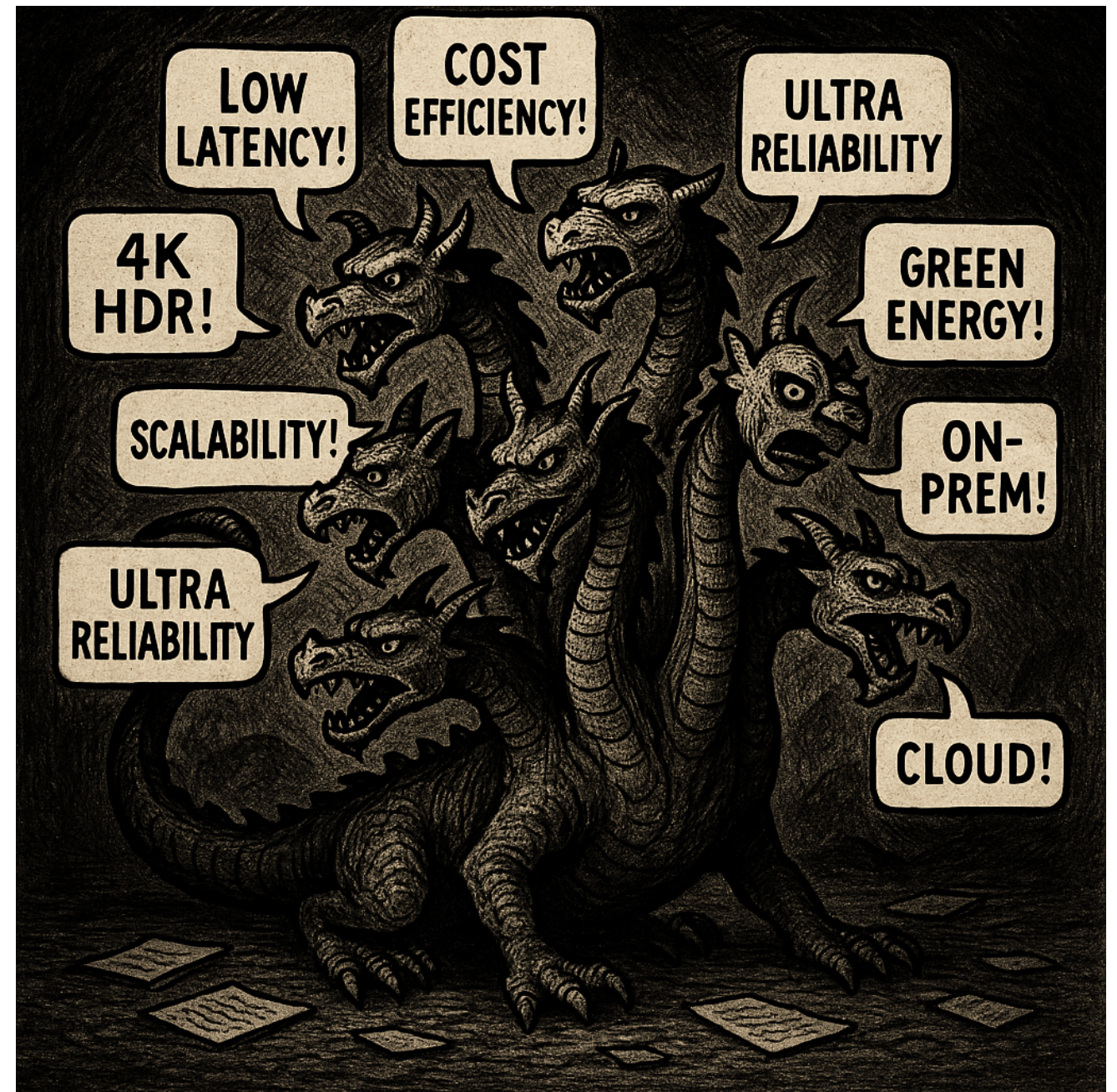
ALLIES, ENEMIES, AND TESTS

Allies	Enemies	Tests
Netint Support	Driver Details	Special Inputs
Norsk Team	Learned Concepts	Special Outputs
Supermicro		Concurrency
Gigabyte		Configuration
Akamai		

APPROACHING THE DRAGON'S DEN



THE ORDEAL



SEIZING THE TREASURE



THE INNER SANCTUM

Codensity G5

2nd gen ASIC with AI onboard

32 1080p30 Encoding

48 1080p30 Decoding

18 TOPS AI on-board

8K resolution, 10-bit HDR

The ~~thousand~~ four faces

QUADRA T1A

- PCIe: where your extensions card go into
- 1x Codensity G5



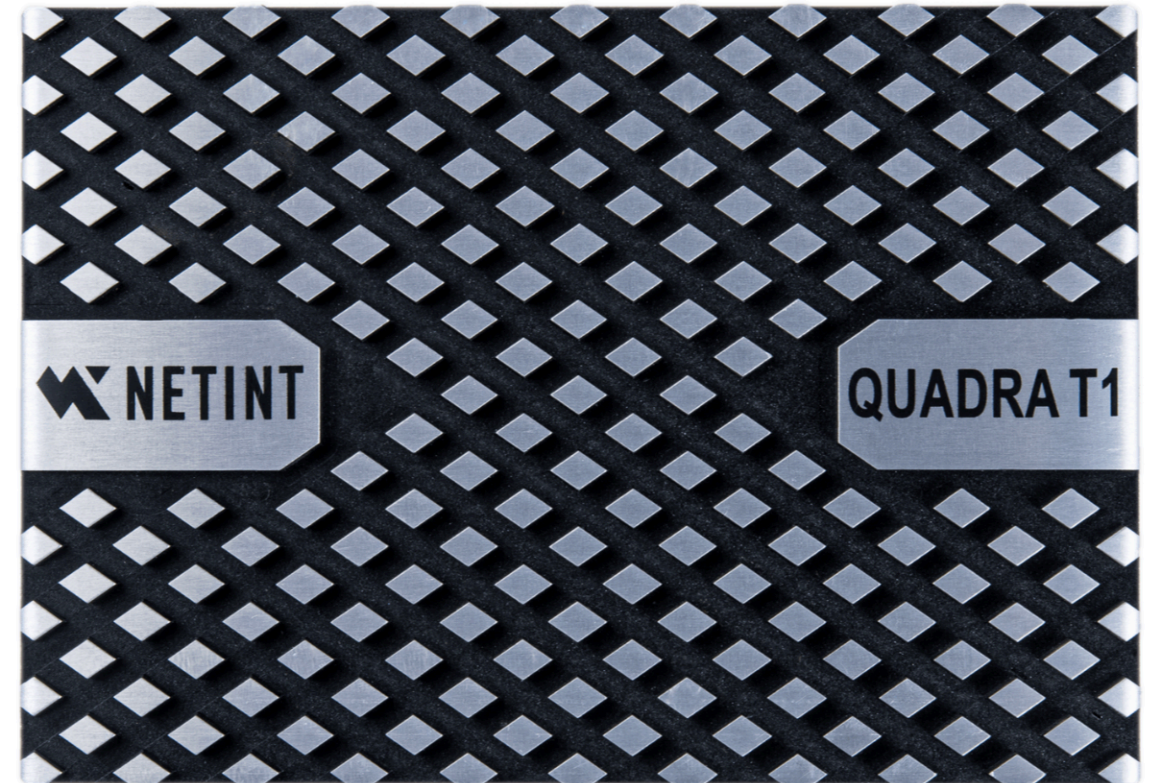
QUADRA T2A

- PCIe: where your extensions card go into
- 2 x Codensity G5



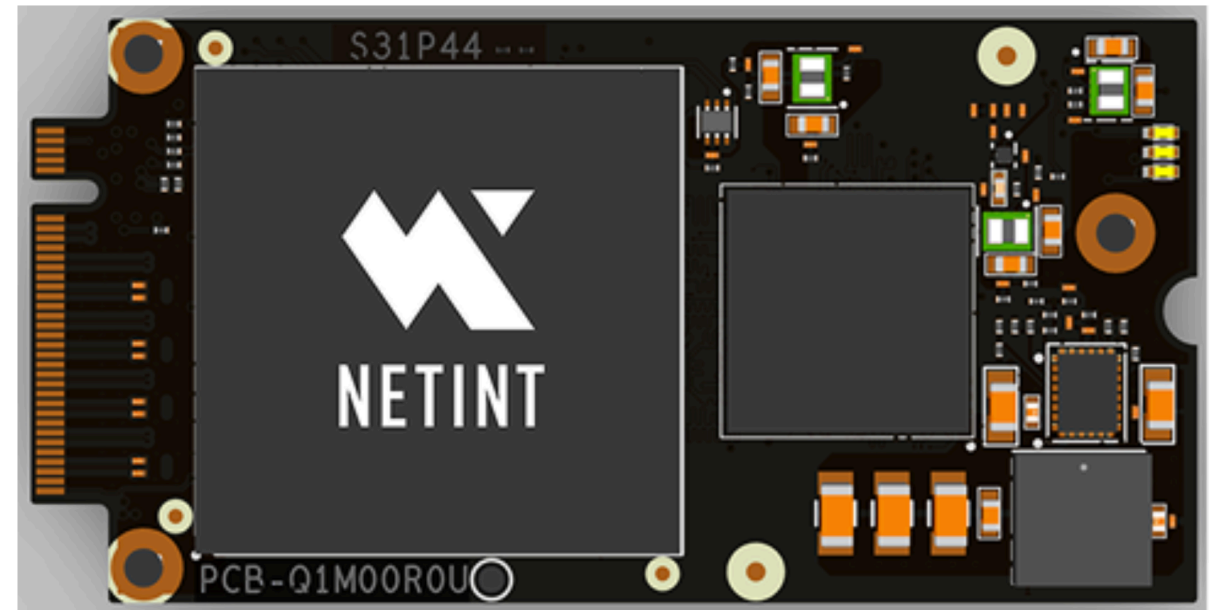
QUADRA T1U

- U.2: where your large data NVMe drives go into
- 1 x Codensity G5



QUADRA T1M

- M.2: where your small boot NVMe drive goes into
- 1 x Codensity G5



Which Quadra for which task?

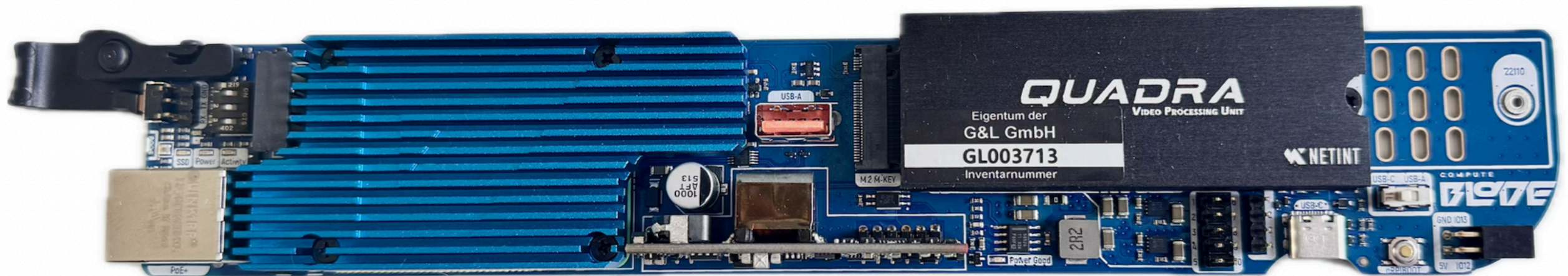
MAXIMUM DENSITY AND PERMISSIVE SERVER VENDOR

T1U: Get up to 12 ASICs per RU

**SERVER VENDOR: "THOU
SHALL ONLY BUY FROM US!"**
T1A or T2A: one or two ASICs per PCIe slot

TINY ENCLOSURES

T1M: one ASIC instead of your mobile SSD



BONUS EGG! AKAMAI NETINT VM INSTANCE!



Accelerated Compute Plans

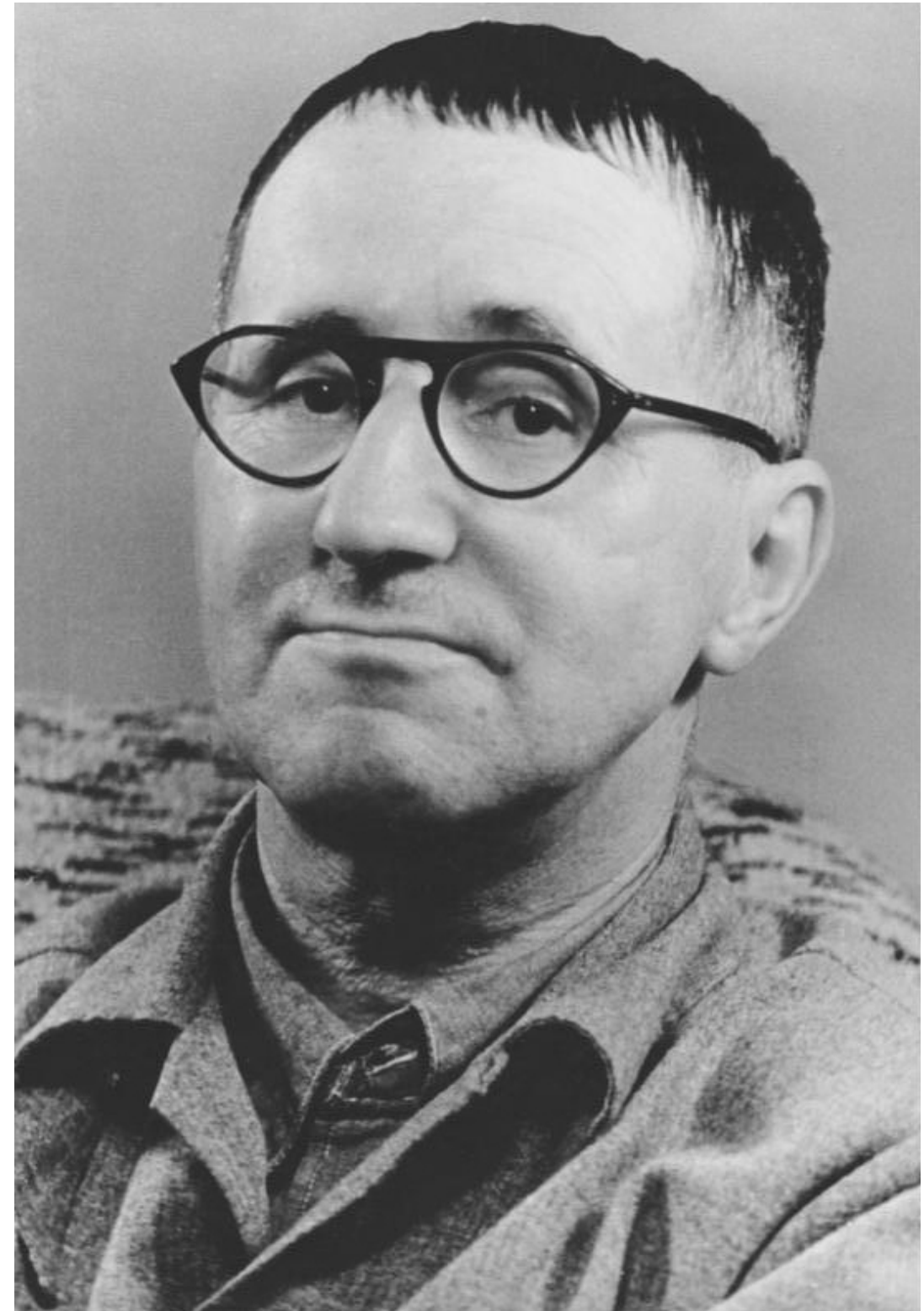
Dedicated access to cloud ASICs for specialized workloads, including media transcoding with NETINT VPUs. [Learn more.](#)

Plan	\$/Mo	\$/Hr	RAM	VPUs	CPUs	Storage	Transfer	Network In/Out	
NETINT Quadra T1U VPU x1 Small	\$280.00	\$0.42	16 GB	1	8	200 GB	0 TB	40/16 Gbps	→
NETINT Quadra T1U VPU x1 Medium	\$352.00	\$0.53	24 GB	1	12	300 GB	0 TB	40/16 Gbps	→
NETINT Quadra T1U VPU x2 Small	\$488.00	\$0.73	24 GB	2	12	300 GB	0 TB	40/16 Gbps	→

THE ROAD BACK

“The labors of the mountains
lie behind us; before us stretch
the labors of the plains.”

Berthold Brecht, poem "Wahrnehmung", 1949



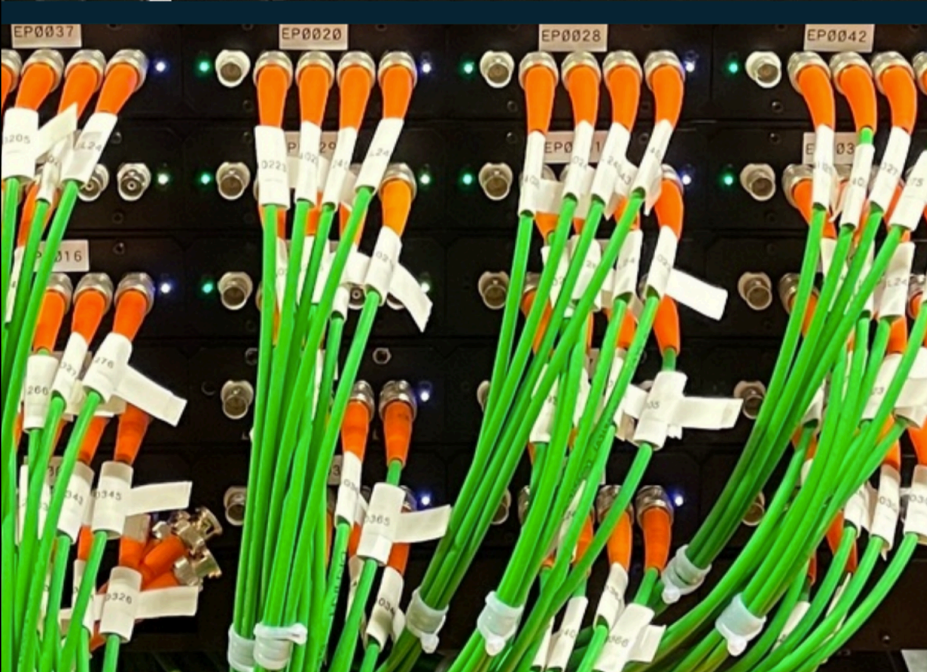
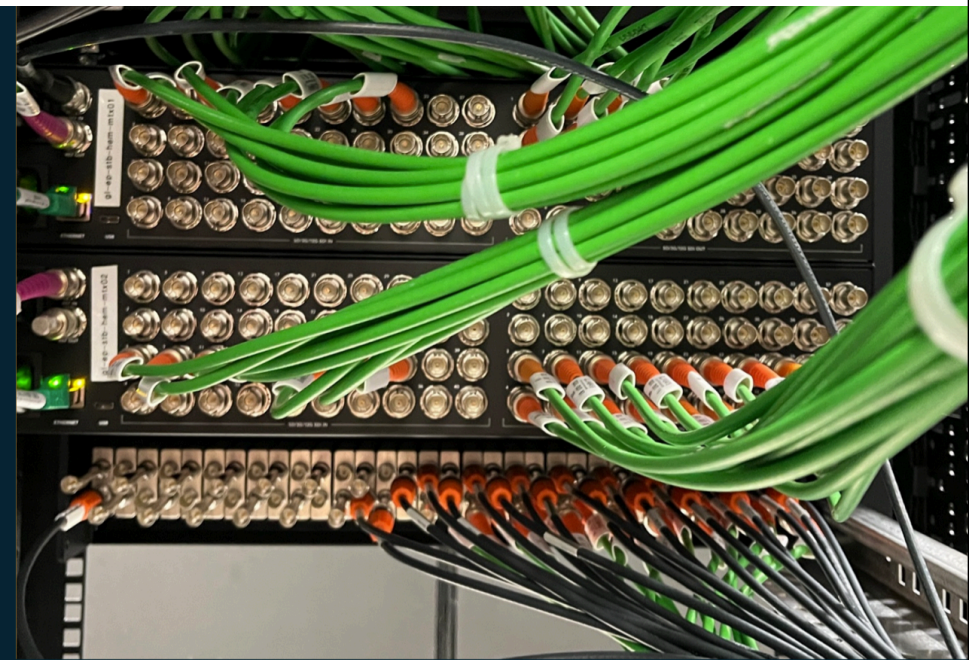
THE ROAD BACK

- driver implementation
- media processing framework chores
 - FFmpeg
 - GStreamer
 - **Norsk from id3as**
 - Low-level C

TRANSCENDENCE

G&L reborn with new hardware skills

RETURN WITH THE BOON



G & L



We can't wait to hear from **you.**

Offices in Cologne, Berlin, Munich



www.gl-systemhaus.de



+49 221 998090



<https://www.linkedin.com/company/gl-systemhaus/>



leschinsky@gl-systemhaus.de

