

Hans Speijer

welcome home
I am having some wild ideas
check my facebook posts, you'll get the idea

Dave Taylor

yeah I see. Cool!

Hans Speijer

I am very inspired
can probably run 50w of sound of a laptop battery

Dave Taylor

lol ya

Hans Speijer

I will build in a pico projector

Dave Taylor

inspiration is key!

Hans Speijer

true
I will wear an iPad on my chest
I noticed they work really well in the environment

Dave Taylor

cool

Hans Speijer

I think that works well
also give people buttons to push
by pushing me in the chest
and I can hand them a set of glasses if they want to plug into my

vision

have a real terminator style HUD but have it be flowers and
beautifull shapes

Dave Taylor

nice
electric flowerchild

Hans Speijer

you should check this out: <http://vimeo.com/20687741>
yes, binary star
I think you get the idea
you like it?

I like facebook

Dave Taylor

watching the video
cool stuff

Hans Speijer

I find that it is not a bad publishing platform if you choose your
content well
which one?

Dave Taylor

fractal lab

Hans Speijer

yes
You van prerecord flights
pre calculate in a way that you can move your head at every frame

Dave Taylor

nice

Hans Speijer

like the electric sheep but then in 3D with free point of vision
then some good music on an enclosed headset and you get a DMT
experience
without the need to take any drugs

Dave Taylor

lol yup

Hans Speijer

especially if you augment it with a realtime camera feed
and then switch the camera half way in
you get an out of body experience
have a couple look at eachother through the glasses
so each see themselves through their lovers eyes

Dave Taylor

nice

Hans Speijer

I'll make two external headsets attached to my backpack
running an hdmi link to mu plug computer or raspberry pi
make it a but sturdy
get it into resin with a strong cable
or one with a magsafe type safety if somebody jerks the cable

I plan to put some pico projector in the headset
to project images

<http://www.popsci.com/gadgets/article/2011-01/worlds-smallest-pico-projector-very-small-not-very-bright>

Dave Taylor
nice
not very bright though

Hans Speijer
yah
It needs to be small though
unless I make some kind of shoulder rocket launcher type platform
if would have to be a pretty big helmet thing otherwise
There is a 300 lumens one

Dave Taylor
true

Hans Speijer
kinda interesting challenge running 4-5 HDMI streams of a battery
pack
the Qumi could be in a shoulder type holster
project from the armpit
with a rotated image
the raspberry Pi runs of 5W I think
fun thing with the hdmi is that it does video and audio over a
single cable
http://www.youtube.com/watch?v=Bl_fUhyCHAO
I would only run the projector at night if there is no dust

Dave Taylor
right

Hans Speijer
If I get 2 or 3 laptop batteries in a backpack I can probably run
80W
If I use a quadcore mobile phone I can run the iPad and the central
'brain' from their own battery
probably get about 4 hours of run time
I would only need to consume man power when I am playing music
or projecting
I have about 2000 euros in budget
comes out of our R&D budget
including all the other BM costs

meaning, I can spend 2k on a costume
camp, travel and ticket are separate costs
comes out of travel expenses budget
With a projector and an iPad running video content I will most
definitely not be a darkwad
Just need to remember to include a water bag in the backpack

Dave Taylor
lol

Hans Speijer
instant movie theater any camp I sit down with a wall in it
dancing in a white dome while projecting video content up
that will really trip out some people
just sit down and meditate at night in the deep playa and play
content on my chest
see who comes to look at the images from the distance
get them to sit down and give them the 2 headsets attached to the
backpack so they see the same content full vision
and play some nice music
I am liking this idea

Dave Taylor
grand ideas
go for it

Hans Speijer
basics first
and then increment
start with the chest oracle
run the software with the iPad as the brain
then add the speakers to the backpack

Hans Speijer
but I am gonna get the VR glasses anyway
had to wait 10 years for them to become affordable
now is the time, they are dropping below 1k USD now
cheap ones start at 160
those will be the external ones
so PC speakers 15-20 W 50USD
Quadcore Android device 600 USD
PICO Projector 600 USD
Battery packs 200 USD
I have the iPad
2 Raspberry Pi 60 USD
2 low rez glasses 320 USD
Costume materials 250 USD

1 high rez HUD glasses 1200 USD
3280 USD = 2500 Euros
500 over budget
I can drop the projector or the secondary glasses
sorry, just thinking aloud
copying this out into evernote

Dave Taylor
lol I know

Hans Speijer
Do you think it sounds feasible?

Dave Taylor
ambitious

Hans Speijer
I think I have a pretty good 'incremental value' path

Dave Taylor
but certainly feasible
as you said... you enjoy a hobby

Hans Speijer
I think you know by now that my ambition is not limited by my
ability
And I like to think that my ability is often within my ambition
at least I dream up things I know how to build
just time and money being the limiting factors

Dave Taylor
indeed

Hans Speijer
and life energy
last year's project took a lot of energy with not that much to show
for it
what made it all worth it for me was to see you with Eric and Link
and to have a laugh with Mark when the Oracle was answering dead one for
like 5 or more questions in a row
that was fun
'dead on' not 'dead one'

Dave Taylor
it was another very ambitious project

Hans Speijer

yes, I once met a brit who could not tell the project management he was full of shit so he kept saying 'that is very ambitious sir'

Dave Taylor

lol

Hans Speijer

as the project progressed the manager finally understood that that was not a compliment by his senior engineer

Dave Taylor

Rock was very ambitious too
and the FLing

Hans Speijer

of course it was an american manager
yes, you are a top producer for this kind of stuff, I am learning an awful lot from you
I am very grateful to have met you in 2009

Dave Taylor

hairbrained ideas are my specialty

Hans Speijer

feasible but ambitious I can live with
in fact, I enjoy that tension
like half an hour before the show started I still had crashing problems I did not know how to solve
remember that moment?
I bet I had even you slightly worried
but we were lucky the content arrived later and that it was reasonable fast to schedule a couple of clips
in the end it was just 2 channels

Dave Taylor

yeah

Hans Speijer

I am designing it for tens or maybe even 100s parallel streams
I am making a 6U hardware rack design
8 minis is 4U

Dave Taylor

cool

Hans Speijer

1U 16 port HDMI patch

1U storage network array

gives you 16 1080p HDMI + Sound and effect rendering in 6 RU

at maybe 400 Watts of power sloping to 1000W if doing heavy

rendering

at maybe 3500–4000 USD in a flight case

does that sound about right?

maybe mount a DMX type video controller on top

Dave Taylor

That sounds about right

Hans Speijer

maybe with something like this as a touchscreen/iPad console on top or wireless on the network. <http://www.blackmagic-design.com/products/atem/software/>

might need 1 RU extra for network patches, power etc

maybe 1 RU extra ventilators

make the whole thing 8 RU in a flightcase with control through iPad or using the Playfull editor on laptop or thunderbolt monitor on one of the minis

How much could you sell such a prebuilt preconfigured setup for?

Dave Taylor

I don't really know

Have to figure it out

Hans Speijer

16 1080p HDMI outputs

with full effects capability

Dave Taylor

That switcher only has 1 HDMI input
that you showed me earlier

Hans Speijer

yeah I know

that was a mistake

I was looking for a 16 port patch through

<http://www.onevisitmedia.com/pphdmi-b116.html>

will need to make a custom patch panel for power, thunderbolt,

USB etc

so all the wiring is neat and tidy inside the flightcase

I am guessing 10k value for an 8 RU flightcase is not exceptional in your business

I don't really need a switcher in hardware

yeah I know
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your business
I don't really need a switcher in hardware
I mean, it would be a 12k cost price setup

Dave Taylor
ok

Hans Speijer
you could make a 'light' version with just 2 mac minis with 6 HDMI
that could go for around 2k cost price
that could easily drive 6 projections but no realtime effect
rendering or a least not much
did you know you can drive multiple seperate 1080p streams over
Thunderbolt?

Dave Taylor
ya that is one of the strong selling points

Hans Speijer
I theory a single mac mini could drive 5 720p streams through a
daisy chain with the content drive on the same chain
maybe even 1080p if the streams are not heavily encoded
I for you could run that of a single i7 chip if you use the graphics
chip too
hope I am not geeking you out, you are a 'technical' producer after
all
just need to get a feeling if we are in the right financial sweet spot
for a vidual cluster configuration for this kind of stuff
I want to make the money on hardware/software combos
all preconfigured from standard drive images
does that make sense?

Dave Taylor
It's a good idea

Hans Speijer
ok thanks, that means a lot to me
I have been looking at prices and 15k for a flightcase of visual
equipment is not much in your industry

And all you wanted was a simple playlist player

Dave Taylor
lol\

Hans Speijer
I am proud of what we built. Thank you for the opportunity
it is a field of technology I very much enjoy
at least you managed to do the show with an alpha version and it
did not crash too much
as I understood it the longest downtime was like 5 minutes in 2
weeks of use?

Dave Taylor
yeah pretty much

Hans Speijer
that's pretty good all things considered
the saving grace was that a daemon restarts at the right timecode
Crashes were easy to recover from
Kyle was our hero, he had to baby sit it the whole time
he was very nice about it and gave us really good feedback
I think he even enjoyed participating in the process
it was good that he met Mark
know a face behind the bugs

Dave Taylor
lol
yeah
you have no idea how we all feel about Kyle
lol

Hans Speijer
You warned me

Dave Taylor
but he was a good type of person for the job

Hans Speijer
I almost assume the worst so he was a lot more then I expected
I think he might be slightly autistic
he is very precise and detail oriented
but he can do mind numbingly boring work without bitching too
much
at least, not to us
great software tester

Dave Taylor

no he was very good about it
think he liked that we did something different and kept him
involved

Hans Speijer

Are you hiring him again in July?
he mentioned to us he had a mailing list with 500+ production
companies

Dave Taylor

yes he will be there in July

Hans Speijer

could be a great commercial boost for us once we want to release

Dave Taylor

I know

Hans Speijer

I think he can be a very loyal supporter for the software if we make
him happy

I am making sure to process all his feedback
if the production workers are happy so is their manager who pays
the bills

Anyway, thanks for the chat and feedback. I will also send a copy
of this chat to Tim and Mark so they know what the plans are and where we
stand

Dave Taylor

ok sounds good