

Van: 5.1.2e - PPCI <5.1.2e@ppci.nl>
Verzonden: donderdag 7 oktober 2021 14:36
Aan: 5.1.2e @gimtransfer.com
Onderwerp: FW: CAD --> virtual reality design verification tool GIM / XR4

Hoi 5.1.2e

Heb een goed gesprek gehad met de mannen van ASML. Ze zijn erg enthousiast over onze GIM software 4D TWIN om bedrijven in de maakindustrie veel tijd en geld te laten besparen bij het ontwikkelen van prototypes. Zelf zijn ze intern bezig met een vergelijkbare specifieke oplossing voor hun eigen productieproces.

Voor ons is het nog wel lastig in zo'n grote organisatie binnen te komen. Ze willen wel contact houden om onze resultaten te zien. Als de demo klaar is moeten we weer contact opnemen.

Vriendelijke groeten,



5.1.2e

Business Manager



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Meander 251, 6825 MC, Arnhem, NL

From: 5.1.2e <5.1.2e@asml.com>
Sent: Thursday, October 6, 2021 4:37 PM
To: 5.1.2e 5.1.2e@gimtransfer.com>
Subject: CAD --> virtual reality design verification tool

Hoi 5.1.2e

Wij hebben kennis genomen van de innovatieve CAD software die GIM ontwikkelt voor de maakindustrie. Wat ons vooral interesseert dat GIM voortdurend software ontwikkelt om engineers tijd te laten besparen bij het ontwerpen van nieuwe producten. Dat is ook voor ons bedrijf een continue uitdaging.

In onze recente contacten spraken we over de nieuwste innovatie, de 4D Twin, die GIM samen met XR4 wil gaan ontwikkelen. Interessant is dat nieuw te ontwikkelen machines als Digital Twin virtueel getest kunnen worden. Daarmee wordt bereikt dat nieuwe machines sneller geproduceerd kunnen worden zonder dat tijd verloren gaat aan het maken van dure en tijdrovende prototypes.

Ook de engineers van ASML zijn met een dergelijk intern project bezig om sneller in de behoefte van de markt te kunnen voorzien. Wij begrijpen echter dat kleinere MKB bedrijven niet de manpower en de financiële middelen hebben om een dergelijke software te ontwikkelen en een algemene oplossing zou natuurlijk welkom zijn. Daarom zien wij voor jullie gezamenlijke projectontwikkeling van 4D Twin grote afzetmogelijkheden in de maakindustrie.

Omdat wij de voordelen van deze innovatieve CAD software onderkennen zouden wij graag op de hoogte gehouden worden van de voortgang van dit project.

Wij wensen jullie developers veel succes toe!

Vriendelijke groet,
Kind regards,

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Applications Engineering – Cluster Manager Taiwan Projects & Project Manager tsmc N3 NTP

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Van: 5.1.2e 5.1.2e@asml.com>

Datum: donderdag 26 augustus 2021 om 16:15

Aan: 5.1.2e 5.1.2e@gimtransfer.com>

Onderwerp: FW: CAD --> virtual reality design verification tool

Hoi 5.1.2e

Onderstaand het antwoord van mijn collega (heb wat zaken gehide). Je leest dat we al soortgelijke tooling gebruiken voor onze modellen/ontwerpen. In een slide die ik gezien heb behelst dat:

- Realistisch gedrag componenten
- Realistische geluiden
- 3D Virtual reality
- Realistische schaduwen en reflecties
- Omgevingen voor manoeuvre ruimte, obstakels, etc
- Aangesloten op bedienings controllers

Ik stel voor dat je ook contact legt met mijn collega's om zo direct over details te praten.
Gaat dit werken voor jou?

Groet, 5.1.2e

From: 5.1.2e @asml.com>
Sent: Thursday, August 26, 2021 10:48 AM
To: 5.1.2e @asml.com>
Subject: RE: CAD --> virtual reality design verification tool

Hello 5.1.2e

ASML uses several tools during development to shorten qualification time. In MDEV we use our Siemens NX models to be used in 3D simulation. See [Digital twin \(sharepoint.com\)](https://sharepoint.com)
During the ... System Function presentation for Herman Boom (head of D&E), some nice examples were shown, see snapshot below. I don't know which tool (brand) this was, but the model could be remote controlled as if operated by a crane operator. This is an example for Handling and Transport.

In general ASML is exploring the 'Digital Twin' concept where we develop in a digital environment. I recommend to contact Fred Huizinga (GL Mechanical Analysis) or Rene Compen (SFO 03 Mechanical Architecture). Jan Jaap Kuit and Rob Spapens were also present during the SF presentation, so they are aware.

<... snapshot removed ...>

Best regards,

5.1.2e

From: 5.1.2e @asml.com>
Sent: Friday, August 20, 2021 4:37 PM
To: 5.1.2e @asml.com>
Subject: CAD --> virtual reality design verification tool

Hoi 5.1.2e

(In het Engels voor het geval ik het later wil doorsturen)

I was contacted by a relative who owns a company (located in The Netherlands) that might have interesting product/tool in development. The product is intended to be used during module/system development of mechanical models with the aim to shorten qualification time. The product is still in development, and they are looking for companies that might have interest in future evaluations and or can even influence the product by requirements (did not confirm this last part, but I can imagine ASML would want that).

The product idea is that from a (combination of) CAD drawings a virtual reality environment can be created that can be used to verify the mechanical design before creating the components. I could think of single module design, multi-module design, or even complete system design. Especially when working across multiple sides, I can imagine this could be very useful. Do you think ASML would be interested in such tools? Or do we already make use of similar tools?

With whom within ASML should I discuss a possible future collaboration / idea support with that company? I was going to write Jan Jaap Kuijt (or Rob Spapens as delegate) an e-mail, but wanted to check with you first for some advice.

Groet, 5.1.2e

Kind regards,

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