

# Case Study

## i3D Network S.A.

»To meet computational requirements, we needed hardware at the highest level. The significant benefits that Fujitsu's powerful graphics workstations give us include primarily the ability to accelerate the implementation of projects and the effective implementation of these changes.«

Dominik Koziarski, New Business Manager, i3D Network S.A.



### The customer

i3D, based in Gliwice, Poland, successfully combines research with business. It is involved in the development and implementation of innovative projects in advanced virtual reality technology (HighTechVR). Applications developed by i3D enable interaction and full representation of the real world in virtual reality. They are used in the petrochemical, mining and industrial sectors, in marketing and advertising, education, design, industrial design, medicine and many other areas of economic activity. i3D's customers include the biggest multinationals and large, well-known brands.

### The challenge

Providing HighTechVR solutions requires hardware with the highest performance parameters. i3D needed graphics stations to work with Autodesk 3ds Max and create sophisticated animations. Another area of application was the use of VR software to create simulations and interactive applications in i3D's innovative software Quazar3D.

"To meet computational requirements, we needed hardware at the highest level," says Dominik Koziarski, New Business Manager at i3D Network S.A.

### The solution

The company's management decided that Fujitsu solutions will constitute the backbone of this infrastructure. Fujitsu workstations were chosen because of their ability to use powerful processors and NVIDIA® Quadro 4000 graphics cards, as well as preparation by the manufacturer of configurations tailored exactly to the needs of i3D.

The company uses standard professional packages, primarily Autodesk 3ds Max, for creating advanced animations. However, the amount of projects undertaken by i3D requires proprietary software. "We use FUJITSU CELSIUS R670 Workstations with proprietary software. Efficient and high-quality execution of the services provided by our group is made possible thanks to Quazar3D – the most modern graphics engine on the market for the creation of interactive VR applications," says Dominik Koziarski.

### The customer

Country: Poland  
Industry: Information technology  
Employees: 60  
Website: <http://i3d.pl/>



### The challenge

i3D needed graphics stations to work with Autodesk 3ds Max and create sophisticated animations. Another area of application was the use of VR software to create simulations and interactive applications in i3D's innovative software Quazar3D.

### The solution

FUJITSU CELSIUS R670 Workstations – powerful, dual-processor computers with NVIDIA® Quadro 4000 graphic cards, making it the perfect solution for applications such as Quazar3D and Autodesk 3ds Max.

### The benefit

- Computing performance required in high-tech virtual reality (HighTechVR) applications
- Ability to use powerful processors and graphics cards
- Use of a configuration tailored to the needs of i3D
- Computational performance required for Quazar3D and Autodesk 3ds Max

Quazar3D is an engine for creating interactive 3D visualizations and their projection in different environments. Graphics workstations are used by VR software engineers to prepare simulations and interactive applications. The graphics engines used by i3D allow applications to be created and graphics to be displayed in 3D in real-time, including in complex CAVE, Concave (cylindrical screens) and Cube (3D caves) projection systems. Another package used by i3D is Flooid – allowing interactive images to be displayed on projection surfaces such as interactive floors and multi-touch tables.

### Products and services

- FUJITSU CELSIUS R670 Workstations

### The benefit

Staff emphasize that the workstations make it possible to accelerate the implementation of projects and the more effective changes introduced in them. Fujitsu solutions are a standard in the company.

### Conclusion

**"We have been using Fujitsu workstations for seven years. Not only do we use them ourselves, but we also recommend to our end customers."**

Dominik Koziarski, New Business Manager, i3D Network S.A.

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