



Amsterdam, 14 October 2011

Concerns: Letter of Reference for Bart van Deenen

To whom it may concern,

I was Bart's project leader during the DECLIC project at the University of Amsterdam from 2000 to 2010. Bart was hired as a freelance consultant to design the architecture and build the software for the Thermal Control Subsystem of the scientific instrument based on his previous experience with the Alice and CPF space experiments.

Bart was during the design phase responsible for the analysis and the choice of the Software to be used in the Thermal Control Subsystem. He was also involved in the electronic hardware design choices. In the analysis of the system it showed that the complexity and flexibility would need to be much larger than initially expected. Bart and colleagues solved that problem by designing and building a completely modular software system, whose architecture allowed an even unspecified scientific experiment unit of unknown capabilities to be hooked up to the DECLIC system with minor software tweaks. The flexibility of this design was proven in 2010 when a critical sensor failed while DECLIC was operating inside the ISS. A few lines of scripting language executed from the ground control center in Toulouse were enough to provide a completely functional workaround.

He also was responsible for the specification, design and manufacturing of an automatic resistance calibration and verification system. This system could adjust about 70 parameters per device, in order to reach, through the resistance, an absolute temperature accuracy of about 0.05 mK for one of the scientific units. This system was an essential test tools to the meet the high-level requirements. Other activities were the writing of documentation on the Thermal Control Subsystem (requirements, specifications, test-procedures and test-reports), writing an EGSE user interface, troubleshooting custom electronic boards, finding sources of system errors and providing reports on the performance of the system.

Bart is a pleasant person to work with. He is a good team worker and is very committed to the quality of the whole project. I would recommend Bart for any job in designing and building space-qualified equipment. Feel free to call me if you have any questions.

Sincerely,

Dr. F.E. Kayzel, IDEAS! UvA B.V., DECLIC project leader.
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