

Certified translation from the German language:

**ISE
Fraunhofer
Institute
for Solar Energy Systems**

TESTIMONIAL

Mr. Max Kubierschky (date of birth: 08 January 1967, place of birth: Munich) was employed in the Thermal and Optical Systems department of our institute as a research assistant from 01 March 1990 to 15 July 1990 and again from 16 July 1994 to 15 December 1994.

Mr. Kubierschky's task during this time was to carry out programming with regard to special problems that were becoming an issue within the field of measurement capturing and data processing on UNIX workstations. The following list includes examples of tasks assigned to him:

- access to the in-house weather database as well as further processing and graphical presentation of the data,
- a C and shell interface for standard queries for weather data (Ingres Database),
- building a database for spectroscopic data,
- geometric calculations with regard to shadowing devices,
- calculating the absorption coefficient of windows as a function of angle and wavelength, taking into account interreflection and interference effects on thin layers,
- a graphical user interface for the 3D previewer “Rshow” of the “Radiance” raytracing program.

Mr. Kubierschky carried out the tasks assigned to him very independently. He was very popular with his colleagues, because he was always accessible and willing to lend a helping hand.

We would like to thank Mr. Kubierschky for his work. We wish him all the best for his studies and for his future professional life.

Fraunhofer Institute for Solar Energy Systems

[signature]

Dr. Volker Wittwer

Head of Thermal and Optical Systems
Department

Freiburg, January 1995

[Ref.] Wi/s

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Munich

Bank account:
Deutsche Bank, Munich
Account No.: 7521933
Bank code number: 70070010

Die Übersetzung wurde von einem deutschsprachigen Original gefertigt.
Die Übersetzung besteht aus zwei Seiten.
Hiermit beglaubige ich die Richtigkeit und Vollständigkeit der Übersetzung.

Bad Belzig, 17. Mai 2013

This translation was done from a German-language original.
This translation consists of two pages.
I herewith certify that the translation is accurate and complete.

Bad Belzig, 17 May 2013

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1 *Seal:* Edward Viesel – document translator generally authorised by the President of the District Court of Potsdam to translate documents from and into the English language.