

# Characterization of electronic devices

## CONTACT

JOANNEUM RESEARCH  
Forschungsgesellschaft mbH

### MATERIALS

Institute for  
Surface Technologies  
and Photonics

### Andreas Kröpfl

Industriestrasse 6  
7423 Pinkafeld, Austria

Tel. +43 316 876-36 03

materials-scl@joanneum.at  
www.joanneum.at/materials

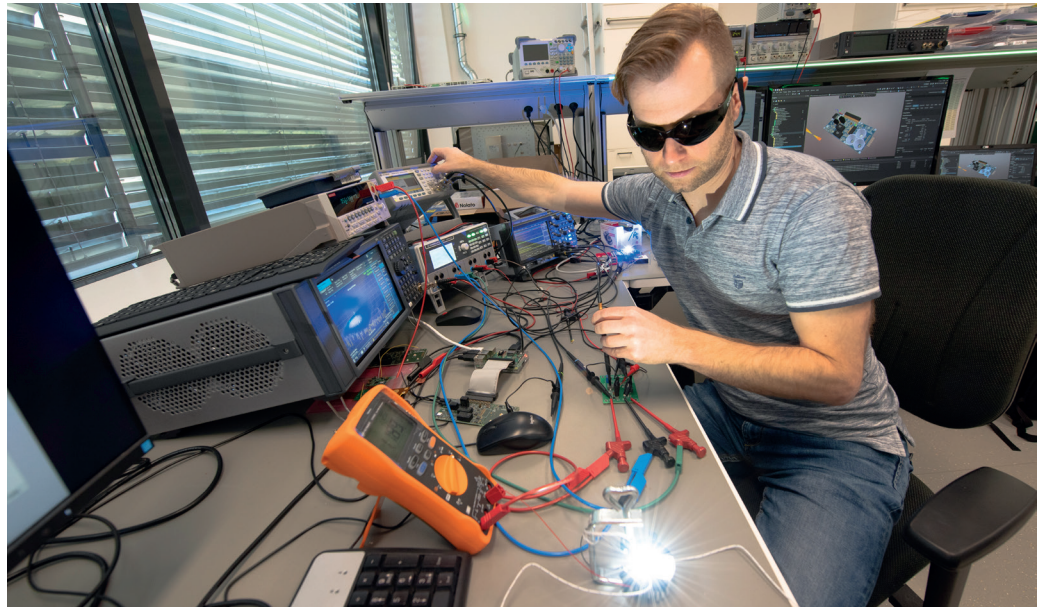


Foto: JOANNEUM RESEARCH/Schwarzl

In our electronic characterization laboratory in Pinkafeld, we offer a modern research infrastructure for cooperation with customers:

- CTS TS-70-350-5 temperature test cabinet with a size of 650 x 720 x 750 mm for testing from -70°C until +180°C with max. 3500 W thermal load
- Keysight DAQ970A data logger with simultaneous recording of up to 40 analog inputs (e.g. temperature spots)
- Fluke Ti401 PRO thermal camera with 640 x 480 pixel
- Keysight E5080A vector network analyzer for determining the transmission characteristics of filters, amplifiers or antennas from 9 kHz to 6.5 GHz
- Keysight N9010B spectrum analyzer for acquisition and display of signals in the common radio and communication frequency range from 10 Hz to 7 GHz
- Keysight N5172B signal generator from 9 kHz to 6 GHz at high output power
- Keysight DSOS404A oscilloscopes for analysis and recording of signals up to 4 GHz
- Keysight 34461A table multimeters with 6 ½ digits and up to 1000 measurements per second
- Keysight E4980AL LCR-meter for precise measurement of complex resistances
- Keysight B2911A source measure unit with a resolution of 10 fA
- EMV equipment incl. a TEM-cell for measuring radiated emissions and immunity in a shielded tent
- Software controlled frequency generators, direct current sources up to 600 V and laboratory power supplies from Rohde&Schwarz, Rigol, Keithley and Keysight