

# Resume

## Personal data

*Surname* Pandey  
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*Date of birth* 27.07.1995  
*Marital Status* Single  
*Nationality* Indian



## Professional career

*03.2021 - today*

### Research Assistant

**Fraunhofer Institute for Ceramics Technologies and Systems, Dresden, Germany**

- Involved in different ongoing project development and management.
- Characterization of LTCC based high temperature sensor in harsh environment.
- Sintering of SiC semiconductor chips into multilayer ceramic substrates.
- Development of MEMS-based ceramic sensor for the selective detection of hydrogen and methane in oxygen-rich gas mixtures.

*04.2020 - 02.2021*

### Master thesis student and research assistant

**Fraunhofer Institute for Ceramics Technologies and Systems, Dresden, Germany**

- Design and development of LTCC based high temperature sensors integrated with passive resistor temperature compensation.
- Laser trimming of thick film resistive circuit and adjustment of offset and temperature coefficient parameters.
- Designing the sensor layout in Draftsight (AUTOCAD) and for other laser micromachining and use of Solidworks for schematic representation.

*09.2019 - 03.2020*

### Full time Intern

**Fraunhofer Institute for Ceramics Technologies and Systems, Dresden, Germany**

- Optimization of LTCC based high temperature pressure sensor using passive temperature compensation.
- Practical implementation of different passive resistive temperature compensation techniques on PCB based circuit.
- Design, development and electrical characterization of LTCC based sensors.

## Education

*10.2018 - 05.2021*

Masters in Scientific Instrumentation, GPA : 1.6

Ernst Abbe Hochschule Jena, Germany

- Majors : Micro- and Nanotechnology, Materials for Sensors and electronics, Gas sensing and aerosol measurement, and Scientific computing.

07.2013 - 05.2017

Bachelor in Electrical Engineering, GPA : 1.6  
Gujarat Technological University, Ahmedabad, India  
• Majors : Design of DC/AC machines and transformers, Electrical power systems - operation and control, Testing and commissioning of electrical equipment, Basic electronics.

## Vocational Training

09.2017 - 05.2018

Neo Creation Vision Technologies Private Ltd, Vadodara, India  
• Learned to simulate, program and test various projects using PLCs and SCADA-based automation systems.

01.2017 - 01.2017

Gujarat Energy Transmission Corporation Limited, Dahod, India  
• On site training in a 132kV EHV substation in commissioning and control of electrical power systems and instrumentation.

12.2016 - 12.2016

Loco Carriage and Wagon Workshop, Indian Railway, Dahod, India  
• Training in the workshops for the production of electric locomotives.

## Skills

*Technical skills*

AUTOCAD (Draftsight), ANSYS, Autodesk Inventor, MATLAB, Python, SolidWorks, MS-Office.

*Soft skills*

Time Management, Teamwork, Problem solving, Communication Skills

## Languages

*German*

Good knowledge - B2 (Sprachzentrum - Friedrich Schiller University Jena)

*English*

Fluent - B2 (IELTS)

## References

*Dr. Ing. Steffen Ziesche*

Group leader | Microsystems, LTCC and HTCC  
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*Prof. Dr. rer. nat. Bernd  
Ploss*

Course leader | Scientific Instrumentation  
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Prashantkumar Pandey

Dresden, 29th July, 2021