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## R&D Scientist and intellectual property specialist

- Research and development experience in mass spectrometry as lead scientist
- Building and developing an intellectual property portfolio for a medium sized subsidiary of a major American corporation
- performing and leading freedom to operate studies
- review of publications in connection with IP strategy enforcement

## Skills

- various major fields and applications of mass spectrometry, sectors, multipoles, RF ion traps, FT-ICR, FT-Orbitrap and their main applications
- simulation of ion dynamics using computational modeling
- ion handling and fragmentation
- lateral leadership in a complex matrix organization
- cross functional approach touching the different scientific disciplines
- programming in C/C++, scripting languages
- intellectual property, including invention mining, freedom to operate search, leading IP as a scientific expert and interfacing with the scientists in the various specializations as well as with in-house and external patent attorneys, prosecution of pending patent applications

## Professional Experience

### **Thermo Fisher Scientific (Bremen) GmbH**

R&D Scientist 1999 to present

Lead Scientist, developing the LTQ FT and LTQ FT Ultra FT-ICR mass spectrometer products

In-house intellectual property expert.

### **Hochschule Bremerhaven**

2014/15: Lecture in "Embedded Systems" for informatics students

## Selected Accomplishments

Key responsibility for building an IP portfolio that currently (02. Jun. 2015) shows approx. 350 cases on espacenet.

Presentations on mass spectrometry conferences.

Lead scientist in development of a successful product line

Change-aware planning of a project, developing technologies for the FT-ICR such that they could be re-used in Orbitrap™ mass spectrometers.

Development of a class 1 laser product incorporating a high power (20 W) continuous wave class 4 laser.

## Tools used (selection)

Totalpatent, Espacenet and USPTO websites, DiamsXE, Foundation IP, Standard Office Software,

Programming tools for C++ (Visual Studio, Eclipse, wxWidgets), Mathematica, Maple, Simion

## Education

Universität Bremen (Bremen University)

Dr. rer. nat (PhD), December 1999

graduated "magna cum laude" in the Biology/Chemistry department

Thesis in a mass spectrometry related subject, with focus on electrodynamics and instrumental analytics

Universität Bremen (Bremen University)

Diplom Physiker (Diploma, roughly equivalent to a "Master of Science" degree in physics),  
October 1994

Thesis in a mass spectrometry related subject.

## Further Interests

Music: Playing Violin in various amateur orchestras, Choir singing