

EXPERIENCE

SINCE 4/2008

BRAINLAB BOSTON, MA USA**IORS PROJECT ENGINEER CUSTOMIZATION ENGINEERING**

- Planning and development of fully integrated operating rooms.
- Project management.
- Third party coordination with MRI/CT providers, AV consultants and electrical contractors.
- Programming of video and network routers.
- Electrical layout design using CIM E3 software.
- Sales assistance.
- R&D participation.
- Internal and external training for hospital and BrainLAB personnel.

1/2007 - 03/2008

BRAINLAB BOSTON, MA USA**IORS INSTALLATION AND SUPPORT SPECIALIST**

- Installation and configuration of complete OR solutions (BrainSUITE).
- Setup of IGS (image guided surgery) and AV (Audio/Video) components.
- Integration of hospital PACS system and network and third party components.
- Electrical safety testing according to IEC 60601-1-1.

3/2003 - 12/2006

BRAINLAB HEIMSTETTEN, GERMANY**HARDWARE ENGINEER**

- Design of accessories for Image Guided Surgery (IGS) instruments.
- Projects included: Development of an IGS enabled ACL drill-guide; quick release adapter for various IGS instruments; Inserter instrument for artificial spinal discs; IGS enabled cup/stem inserter (hip).
- PTC Pro/ENGINEER 2001 & Wildfire CAD software.
- Established concept and introduced company-wide PDM solution (PTC Windchill) for R&D departments.

6/2001 - 10/2002

DESIGN MENTOR PELHAM, NH USA**MECHANICAL DESIGN ENGINEER**

- Development of medical devices used for sterile fluid management.
- Main project: Development of a fully automated pathogen inactivation device for Red Blood Cells.
- PTC Pro/ENGINEER 2001 CAD software.

10/1998 - 5/2001

DATUM 3D NEWTON, MA USA

MECHANICAL DESIGN ENGINEER

- Design of various consumers products using Euclid 3, AutoCAD 2000, SolidWorks 2000 and CADKEY CAD applications, worked on various graphic layouts for decals and keypads and built many prototypes using 3 axis CNC milling machines.
- Designed and built pneumatically actuated garment power drill.
- Designed and built 6-axis motor driven robotic arm to be used for scaled up replication of art models.
- Fabricated a 4-foot diameter globe-casting model of the World and the Moon using satellite obtained topographical data. The final bronze castings are exhibited in the 'Gottesmann Hall of Planet Earth' (<http://www.amnh.org/rose/hope/>) of the Museum of Natural History in New York City.
- Managed many projects, including supplier coordination.
- Developed DaTuM 3D's former webpage (http://www.docschnaggo.de/d3d_old/home.html).

9/1997 - 2/1998

ORTHOPAEDIC RESEARCH INSTITUTE WICHITA, KS USA

RESEARCH ENGINEER

- Main project: Investigation of factors that result in misalignment during total knee replacement surgery.
- Developed a three-dimensional computer model of the human knee based on geometry obtained from computer tomography images.
- Analyzed a number of structural engineering problems using the Finite Element Analysis method with ANSYS.
- Designed several fixtures for experimental data acquisition using SolidEdge 3D CAD software.
- Validation of the investigated results through in vivo measurements.

4/1996 - 10/1996

SIEMENS MEDICAL DANVERS, MA USA

MECHANICAL DESIGN ENGINEER

- Designed Enclosures for various medical appliances including EKG monitors and peripheral devices using CADKEY software.
- Performed structural testing and coordinated vendors and purchase of related equipment.
- Created process documentation according to ISO 9001 standards.

2/1991-8/1992

GERMAN RED CROSS NEUSTADT/HASSLOCH, GERMANY

PARAMEDIC

- Alternating service on first response units and ambulances.
- Taught disaster prevention courses and first aid to the public and group leaders.

EDUCATION

9/1993-7/1998 **FACHHOCHSCHULE (POLYTECHNIC UNIVERSITY) ULM, GERMANY**

DIPLOMINGENIEUR (FH)

- Graduated with Medizintechnik degree.
- Equivalent to a Bachelor of Science degree in Precision Instrument Technology with specialization in Medical Technology.

9/1992-7/1993 **FACHOBERSCHULE EDENKOBEN, GERMANY**

FACHOBERSCHULABSCHLUSS

- Graduated with Fachhochschulreife degree.
- Equivalent to a Polytechnic University Maturity certificate.

9/1987-1/1991 **BASF CORPORATION LUDWIGSHAFEN, GERMANY**

PRECISION TOOLMAKER

- Precision Toolmaker training (equivalent to a US vocational high school diploma in precision instruments)
- Extensive training in machining (milling, turning, grinding) as well as basic mechanical work methods.
- Co-developed and fabricated multiple prototypes.
- Graduated with honors.

ONLINE RESOURCES

- Further information about my previous positions and projects can be accessed online at http://www.docschnaggo.de/pf0_e_l.html