

PERSONAL DATA **Lewin Probst**

 Schulstr. 96, 28816 Stuhr/Varrel

 +49 174 6130795

 info@emirror.de

 <https://emirror.de>

german

EXPERIENCE

May 2019 – Today **Freelance Software Engineer**

Lewin Probst, M.Sc., emirror-de, Stuhr/Varrel

- Full-Stack Web Development
- Dataprocessing and Visualization
- Algorithm development for robotic applications

Nov. 2015 – Mar. 2019 **Measurement Technician & Software Engineer**

Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven

- Technical support of the meteorological long-term observatories Neumayer III and FS Polarstern (Section Polar Meteorology)
- Development, optimization and support of specialized software for the automated processing of real-time data flows, as well as development of graphical user interfaces for efficient visualization of datasets (Section Physical Oceanography)
- Support of both sections on science expeditions

Nov. 2014 – Sep. 2015 **Student Research Assistant**

Deutsches Forschungsinstitut für Künstliche Intelligenz, Bremen

- Project ROBEX, deep-sea crawler
- Preparation support of the initial operation of Wally II

Apr. 2014 – Oct. 2014 **Student Research Assistant**

Zentrum für Marine Umweltwissenschaften, Bremen

- Project ROBEX, underwater glider
- Responsible for development of navigation algorithms
- Conceptioning and calculation of electrical components
- Sensor selection

Mai 2010 – Jan. 2013 **Student Research Assistant**

Institut für Marine Ressourcen GmbH, Bremerhaven

- Project LineScan
- Responsible for software development including a graphical user interface in C# for closed-loop control, recording, analysis and evaluation of the data.
- Algorithm development

VOLUNTARY
May 2016 – May 2017 **Head of department Volleyball**

Bremen 1860, Bremen

- Budget planning and administration of the department
- Contact for members and interested parties
- Internal and external representation of the department

EXPEDITIONS
Dec. 2018 – Feb. 2019 **PS117**

FS Polarstern, Antarctica

- Technical support of the meteorological long-term observatory
- Technical support of oceanographic measurements
- Maintenance and repair and control "vectored Little Benthic Vehicle" (vLBV300) by Seabotix

Jan. 2018 – Feb. 2018 **ANT-LAND 17/18**

Neumayer Station III, Antarctica

- Maintenance and repair of the meteorological long-term observatory
- Briefing and supervision of the overwinterers during the transfer time
- Installation, configuration and programming of the data processing of two new measuring devices as well as integration into the station network

Dec. 2017 **PS110**

FS Polarstern

Upgrade of an existing measuring system:

- Installation,
- Configuration,
- Programming of the data processing,
- as well as debugging, testing and
- Integration into the ship network.

Nov. 2016 – Feb. 2017 **Filchner Ice Shelf Project & ANT-LAND 16/17**

Filchner Ice Shelf & Neumayer Station III, Antarctica

Filchner Ice Shelf Project

- Configuration, preparation and deployment of oceanographic instruments for long-term observations
- Maintenance and repair of deployed stations
- Co-Pilot on demand

ANT-LAND 16/17

- Maintenance of the meteorological long-term observatory
- Briefing and supervision of the overwinterers during the transfer time

Jan. 2016 – Feb. 2016 **ANT-LAND 15/16**

Neumayer Station III, Antarctica

- Maintenance of the meteorological long-term observatory
- Briefing and supervision of the overwinterers during the transfer time

SKILL ENHANCEMENT
May 2018 **vLBV Technical Training**

Helgoland

Sep. 2017 **Introductory training synoptic observations**
Deutscher Wetterdienst, Hamburg

Sep. 2017 **Introductory training ozone soundings**
Alfred-Wegener-Institut, Potsdam

Sep. 2016 **Advanced first-aid course "First Aid Plus"**
British Antarctic Survey, Cambridge

EDUCATION

Oct. 2012 – Sep. 2015 **Master of Science in Navigation and Environmental Robotics**

Leibniz Universität Hannover, Hannover

- Topic of thesis (written in english):
Robust visual navigation for autonomous underwater track vehicles

Oct. 2009 – Sep. 2012 **Bachelor of Science in Maritime Technologies**

Hochschule Bremerhaven, Bremerhaven

- Topic of thesis (written in german):
Image segmentation of static images based on Hoshen-Kopelman Algorithm for the analysis of LineScan-Data

ADDITIONAL

Languages First foreign language english, Advanced course (5. - 13. grade of school)

- Course in technical english during Bachelor studies

 Second foreign language french (7. - 10. grade of school)

Informatics knowledge Languages

- HTML, CSS, PHP, JavaScript
- Python, MATLAB
- C++, C#

 Version control: GIT, Subversion
 Databases: MySQL
 Expert knowledge in Linux und Windows
 LaTeX, Microsoft Office
 ROS, ROS2
 GIMP, Inkscape
 Vim, Atom, PyCharm, Eclipse
 Apache2, Nginx

Hobbies Volleyball (2. German Bundes League)
 Playing the drums
 Development and optimization of websites (since 2009)
 Enhancing my knowledge in website programming/design using e.g. Smashing Magazine and Speckyboy as well as SEO