

Profile Andreas Heindl - heindl-solutions.com

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Skill Summary

- Modern C++ / C++11, STL
- Machine Vision
- HALCON
- Build Automation
- Test Driven Development
- Testing
- Qt, QtQuick
- C, Assembler, C#
- HTML, CSS, JavaScript
- bash, cmd, Python, Perl
- svn, git
- Creation of installer packages
- Platforms: Windows, Linux

Academic Qualifications

2002 – 2007

Diploma in Physics, Technische Universität München (TUM),

Major courses:

- Computational Physics
- Semiconductor Physics

Trainings, Conferences and Certificates

2017

- MVTec Certified Integration Partner

2016

- Machine Learning by Stanford University on Coursera
- Contributing member of **Munich C++ User Group MUC++**

2015

- Volunteer coach for Android development at MINT-Garage Buch am Erlbach
- Certified Qt Developer
- Certified Qt Specialist

Profile

Senior Software Engineer with **9 years of experience** in **modern C++11** and C development with a focus on bringing machine vision algorithms and applications quickly to our customers. Seasoned in **complex bug investigation** techniques, **build and test automation**, modern web and GUI development, and product versioning and installation management. Experienced in Design Patterns and passionate Test Driven Development advocate. Loves to work on challenging machine vision problems in his favourite programming language C++.

Specializations cover:

- **Certified Qt Specialist including C++ certification**
- **HALCON development**
- **Modern GUI development using Web technologies**

Work Experience

since 2015 Independent Machine Vision Software Engineer at **Andreas Heindl Software Solutions**

<http://www.heindl-solutions.com/>

2012 – 2015 MVTec Software GmbH, Project MERLIC Senior Software Engineer

- Agile developer as part of a medium-size **SCRUM** team.
- Visual Backend component (Qt / C++)
- MERLIC Engine component (C++)
- Communicate with various Digital I/O, OPC UA
- Internationalization
- Test driven development and automated unit and integration tests.
- Initiated and introduced fast Continuous Build and Test automation (Jenkins, Google Test, Squish) including setup and maintenance to the release workflow.
- Responsible project manager for the introduction and customization of JIRA ticketing system
- Responsible for and speaker in bi-weekly team internal developer talks.
- Leveraged C++11, Qt and Qt Quick for writing flexible, efficient and modern code.
- Multithreaded, cross-platform development (Windows, Linux; x86, x64).

<p>2014</p> <ul style="list-style-type: none"> • Qt Developer Days 2014, Berlin • Qt for Mobile Platforms (Android / iOS) • Projektmanagement Basiswissen Intensiv • 31C3 – 31th Chaos Communication Congress, Hamburg 	<p>2008 – 2012 MVTec Software GmbH, Project HALCON Software Engineer</p> <ul style="list-style-type: none"> • Designed, implemented, tested and documented algorithms and operators in a comprehensive Machine Vision library that is used worldwide. • Wrote optimized assembler code and intrinsics (e.g. using SSE2 instructions) with speed ups of up to 300%. • Data code reader (QR codes) • Responsible for HALCON 11 C++ interface • Coordinated manual and automatic tests for a major product release. • Responsible for improving automation of unit test executions.
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