

Profile Andreas Heindl - heindl-solutions.com

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<p>Skill Summary</p> <ul style="list-style-type: none">• HALCON• Modern C++• Machine Vision• Build Automation• Test Driven Development• Testing• Qt, QtQuick• C, Assembler, C#• HTML, CSS, JavaScript• Git, svn• Installer packages• Platforms: Windows, Linux <p>Academic Qualifications 2002 – 2007 Diploma in Physics, Technische Universität München (TUM), Major courses:</p> <ul style="list-style-type: none">• Computational Physics• Semiconductor Physics <p>Trainings, Conferences and Certificates</p> <p>2017</p> <ul style="list-style-type: none">• MVTec Certified Integration Partner <p>2016</p> <ul style="list-style-type: none">• Machine Learning by Stanford University on Coursera• Contributing member of Munich C++ User Group MUC++ <p>2015</p> <ul style="list-style-type: none">• Volunteer coach for Android development at MINT-Garage Buch am Erlbach• Certified Qt Developer• Certified Qt Specialist <p>2014</p>	<p>Profile</p> <p>Senior Software Engineer with more than 10 years of experience in developing machine vision applications using MVTec HALCON. Experienced in modern C++ development with a focus on the development of Qt based Graphical User Interfaces for machine vision applications. Seasoned in build and test automation, modern web and GUI development, and product versioning and installation management. Loves to work on challenging machine vision problems in his favourite programming language C++.</p> <p>Specializations cover:</p> <ul style="list-style-type: none">• HALCON development• Certified Qt Specialist including C++ certification• Modern GUI development using Web technologies <p>Work Experience</p> <p>since 2018 Managing Director at Machine Vision Makers http://www.machine-vision-makers.com/</p> <p>since 2015 Independent Machine Vision Software Engineer at Heindl Solutions http://www.heindl-solutions.com/</p> <p>2012 – 2015 MVTec Software GmbH, Project MERLIC Senior Software Engineer</p> <ul style="list-style-type: none">• 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.
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<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 	<ul style="list-style-type: none"> • Multithreaded, cross-platform development (Windows, Linux; x86, x64). <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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