

Curriculum Vitae

Personal/Professional Information





Title	MSc in Computer Engineering (5 years, full-time) at Wroclaw University of Technology (Leading Technical University in Poland) Master Thesis: Scheduling tasks on parallel machines with resource constraints (in C/C++) Certified SAP ABAP Software Developer
Positions	<ul style="list-style-type: none">✓ Senior C/C++ Software Developer (Games, DSP, Audio Plugins, Optimization, Win/Linux, Embedded, ERP) (5+ years)✓ Senior SAP ABAP Software Developer (9+ years)✓ Python Developer (2+ years)✓ Musician/Composer/Music Producer/Pianist (NI, Steinberg Cubase, Audacity, Ableton Live, MAX/MSP, FAUST etc.) (5+ years)
Technologies Know-how Main interests	<ul style="list-style-type: none">✓ Modern C/C++11/14/17 (GCC, MSVC)✓ STL, BOOST, QT, JUCE✓ Qt Creator/Visual Studio/XCode✓ Low latency, Multi-threading✓ Algorithms and Data Structures✓ Clean Code, DRY, KISS, SOLID✓ Maths (Calculus, Linear Algebra, Statistics)✓ Python (NumPy, scikit-learn, Pandas, Matplotlib, TensorFlow)✓ Boost Test, Google Test, TDD✓ Maple, MATLAB, Octave, Excel✓ MySQL, Oracle✓ Digital Signal Processing (DSP)✓ Git, GitLab, SVN, CI, TDD/BDD✓ Jira/Redmine Management Systems✓ AI/Machine Learning/DL Algorithms✓ Quantitative Finance, HFT✓ Linux OS Programming (Bash, GCC, GDB)✓ HTML5, CSS, JavaScript✓ SAP ABAP Object Oriented

Industries	<ul style="list-style-type: none"> ✓ Music Business ✓ Gaming ✓ Academia ✓ FinTech ✓ Audio Engineering (Music Business) ✓ Pharmaceutical ✓ Energy/Manufacturing(hydropower) ✓ Production (glass, plastic, gypsum, insulation wool and other building materials) ✓ Energy (transmission and distribution of electricity) ✓ High Education ✓ Steel and Mining ✓ Oil/Petroleum (plastics, chemicals and refining) ✓ Mining/Production (Copper and Silver) ✓ Chemical ✓ Catering and Hotel Management
Language Skills	English, Polish(native)

Education

Date of Graduate	Institution	Degree
2015	Nokia Solutions and Networks	Certificated in Practical Aspects of Software Production: <ul style="list-style-type: none"> • Agile/Scrum • Subversion/Git • Continuous Integration • Jenkins • Python Programming
2006	SAP AG	Certified ABAP Developer
2001	Wroclaw University of Technology	M.Sc. in Computer Engineering <u>Speciality:</u> Applied Computer Engineering
1992	Katowice College of Technology	Dip. Electronic Technician <u>Speciality:</u> Computer Programming
1990	Bielsko-Biala High School of Electronics	<u>Speciality:</u> Electronics

Work Experience

Duration	Client/Project List
<p>2020 – project suspended</p> <p>(full-time contract)</p> 	<p>Heckmann GmbH – Senior C++ Software Developer (direct contract role with client, Berlin, GERMANY)</p> <ul style="list-style-type: none">• Wave Table Graphic User Editor (QT/QML, VST SDK, JUCE)• Audio plugins (DSP, numerical methods)• Linux Audio Plugin Support
<p>2018 – 2020</p> <p>(full-time contract)</p> 	<p>WAZDAN Ltd. – Senior C++ Software Developer - Mathematician (direct contract role with client, Birkirkara, MALTA)</p> <ul style="list-style-type: none">• Design and implementation cutting-edge server gaming solutions (desktop tools, QT/QML, UI/GUI)• Design (logic, statistical and probabilistic design) and implementation of games (C++, Python) on the server side• Testing, documenting and preparing games for the certification process
<p>2011 – 2018</p> <p>(full-time)</p>  	<p>ROCHE – C++ Software Developer/Senior ABAP Software Developer (contract role with SQ1 Resources, London, UK)</p> <ul style="list-style-type: none">• SAP ECC 6.0 HCM Chris Project: Migration from SAP HCM to Workday, Switzerland, Poland<ul style="list-style-type: none">✓ Data Extraction/Cleansing from the SAP HCM system✓ SAP Interfaces (C++, RFC, IDoc)✓ Data validation/transformation using mapping & transformation rules (C++/Python)• SAP ECC 6.0 Clara Harmony Integration (Logistics WM): Integration between SAP ERP system and SAP Decentralized WMS, Brazil, Poland<ul style="list-style-type: none">✓ SAP NetWeaver Remote Function Call (RFC) Software Development Kit (C++ SDK)✓ Interface SAP backend systems (IDoc, C++, RFC)• SAP ECC 6.0 SUN2SAP: SUN2SAP– FI/CO/MM Implementation & Support Development, Brazil, Poland• SAP SCM 7.0 APO Project: UFINC – SCM/APO Implementation & Support Development, Switzerland, Poland• SAP ECC 6.0 HCM Project: CHRIS – Common Human Resources Information Solution – HCM Implementation & Support Development, Poland, Switzerland, USA• SAP ERP ECC 6.0 Project: LATAM – Support Development, Poland, Brazil

**2014 – 2017
(part-time)**



ITApps – C++ Software Developer/Python Development/Embedded Systems (self-study, r&d, Wroclaw, Poland)

- ✓ Machine Learning/Deep Learning/ANNs
- ✓ FinTech (Fixed Income, Risk and Derivatives)
- ✓ Linux System/Kernel Programming
- ✓ CUDA/GPU Programming
- ✓ X86/ARM assembler
- ✓ OS Dev
- ✓ Embedded systems (Arduino, Raspberry PI)

**2007 – 2010
(full-time)**

SIEMENS










SIEMENS - Senior Software Developer

- **SAP ERP 4.6 Template Project (PP):** Voith Siemens Hydro Power Generation, Voith AG, Heidenheim, **Germany**
 - ✓ SAP PP
 - ✓ Core ABAP Development
 - ✓ Testing
 - ✓ Documentation
- **SAP ERP 4.6 SCD Migration Project, Poland**
 - ✓ Data Migration
 - ✓ Thebis
 - ✓ LSMW
 - ✓ Core ABAP Development
- **SAP ERP 4.7 Maintenance Project:** EnergiaPro S.A., Wroclaw, **Poland**
 - ✓ Core ABAP Development
 - ✓ SAP HR
 - ✓ Analysis
 - ✓ Logical Databases
 - ✓ Testing
 - ✓ Documentation
- **SAP ERP4.7 Project:** Jagiellonian University, Cracow, **Poland**
 - ✓ SAP FI, FI-TV, MM, SD, HR
 - ✓ Adobe Forms
 - ✓ SAPScript
 - ✓ Smart Forms



<p>2006 – 2007 (full-time)</p>   	<p>ITECS – Senior Software Developer (contract role with Hudson, London, UK)</p> <ul style="list-style-type: none"> • SAP ERP R/3 Project: Leverage Project, SIDMAR Arcelor Group, Gent, Belgium <ul style="list-style-type: none"> ✓ SAP SD, MM, WF ✓ Dialog and Report Programming ✓ OO ABAP ✓ ALV ✓ IDOC ✓ Scheduling Agreement ✓ Call transaction ✓ Bug Debugging ✓ Testing ✓ Documentation ✓ Technical Specification ✓ SAP Script ✓ Interfaces
<p>2003 – 2006 (full-time)</p>  	<p>CAPGEMINI - ABAP Developer, Wrocław, Poland</p> <ul style="list-style-type: none"> • SAP ERP R/3 Project: BASELL ABAP Factory, Basell GmbH, Germany <ul style="list-style-type: none"> ✓ LSMW ✓ IDOC ✓ ALV ✓ SAP Script ✓ RFC ✓ Interactive Report ✓ Interfaces ✓ Dialog Programming • SAP R/3 Project: GLOBE Project Roll-Out, Basell USA Inc., USA <ul style="list-style-type: none"> ✓ SAP FI,CO, MM, SD, WM, PP ✓ Call transaction ✓ Implementation of customer functionality in a Railcar Management Area ✓ Interface Programming (e.g. Scale Interface) ✓ SAP Script ✓ User-exit
<p>2002 – 2003 (full-time)</p> 	<p>PSP Audioware, C++ Software Developer, DSP Audio Engineer (full-time job, Warsaw, Poland)</p> <ul style="list-style-type: none"> • Project: GUI AUDIO DSP Plug-in PSP78 – Stereo Phaser (VST SDK, User Interface)

<p>2001 – 2002</p>  <p>Fredheim Helsecenter FOR EN BEDRE LIVSOPPLØSING</p>	<p>Stiftelsen Hjertegod Foundation, English Training, Kongsberg, Norway</p> <ul style="list-style-type: none"> English Training
<p>2000 – 2001</p>  <p>Wroclaw University of Technology</p>	<p>Wroclaw University of Technology, C/C++ Software Developer, Wroclaw, Poland</p> <ul style="list-style-type: none"> Project: Discreet Optimisation (Scheduling tasks on parallel machines with resource constraints)
<p>1998 – 2000 (full-time)</p> <p>IMG Poland</p>  <p>KGHM POLSKA MIEDŹ S.A.</p>  <p>PCC ROKITA</p>  <p>SV catering & services</p>  <p>SAINT-GOBAIN POLFLOAT</p>	<p>IMG Information Management Poland, SAP ABAP Developer, Consultant, Wroclaw, Poland</p> <ul style="list-style-type: none"> SAP R/3 Project: KGHM Polska Miedz S.A., Poland <ul style="list-style-type: none"> Report programming (MM, SD, FI, CO) dialog programming call transaction documentation building interfaces SAP standard modification SAP R/3 Project: PCC ROKITA S.A., Poland <ul style="list-style-type: none"> Report Programming (MM, SD) Dialog Programming SAP Script User-exit SAP Standard Modification Documentation and Specification SAP R/3 Project: SV-Service, Switzerland <ul style="list-style-type: none"> Report and Dialog Programming MM, SD Data Transfer Call Transaction Testing Documentation SAP R/3 Upgrade Project: Polfloat Saint-Gobain, Poland <ul style="list-style-type: none"> Upgrade of SAP R/3 Interface Programming
<p>1997 – 1998</p> 	<p>Gen Computers – C/C++ Software Developer, Wroclaw, Poland</p> <ul style="list-style-type: none"> Student Internship (Warehouse Management & Sales System)

Workshops & Professional Trainings

- Coursera, 2017: Machine Learning
- Coursera, 2016: HTML5/ CSS3/JavaScript
- NOKIA Solutions and Networks, 2015, Certificated in Practical Aspects of Software Production:
 - ✓ Agile/Scrum
 - ✓ Subversion/Git
 - ✓ Continuous Integration,
 - ✓ Jenkins
 - ✓ Python Programming
- Siemens Sp. z o.o., 2009 – Internal training – Overview of SAP RM (4d)
- Siemens Sp. z o.o., 2009 – Internal training – IS-U Data Migration (2d)
- Siemens Sp. z o.o., 2007 – Internal training and self-learning based on the following official SAP Trainings:
 - ✓ HR350 Programming in HR
- Capgemini Poland, 2004 - Internal training and self-learning based on the following official SAP Trainings:
 - ✓ BC401 ABAP Objects (3d)
 - ✓ BC425 Enhancements and Modifications (2d)
- Capgemini Poland, 2003 - Internal training and self-learning based on the following official SAP Trainings:
 - ✓ BC415 Communication Interfaces in ABAP (2d)
 - ✓ BC411 Advanced ABAP Programming (2d)
 - ✓ BC490 ABAP Performance Tuning (2d)
- Lotus Notes – IMG Information Management Poland, 2000 (2d, workshop)
- Business Process Reengineering (BPR) – IMG Information Management Poland, 2000 (3 days, workshop)
- Overview of MM- IMG Information Management Poland, 2000 (3d, workshop)
- Overview of SD- IMG Information Management Poland, 1999 (3d, workshop)
- Overview of FI and CO - IMG Information Management Poland, 1999 (3d, workshop)
- ABAP/4, SapScript, ABAP Workbench, ABAP Dictionary, Techniques of List Processing, Programming User Dialogs, Programming Database Updates, Data Transfer - IMG Information Management Poland, 1999 (10 days, workshops);
- PROMET Methodology – IMG Information Management Poland, 1998 (1 day, lecture)