

Nelson Vides Luzardo

SOFTWARE ENGINEER

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“Getting out of my comfort zone.”



Skills

Programming C++, Haskell, Standard ML, C#, Visual Basic & VBA, LaTeX
Tooling *git*, Visual C++, Jenkins, NAnt, GitHub, BitBucket, Jira, GCC, AVR
Languages Spanish, English, Polish

Experience

Motorola Solutions Poland

Kraków, Poland

SOFTWARE DEVELOPER

June 2018 - PRESENT

- Development of the CD & CI platforms: whole integration of Jenkins, git, NAnt, Jira, BitBucket, and Artifactory.
- Maintenance and refactoring of high security telecommunications software.
- Promotion of modern C++11 & C++14 standards. Promotion of generic programming.
- Environments: Scrum-SAFe methodologies.

IBM BTO Services Poland

Kraków, Poland

AUTOMATION PROCESS DEVELOPER

Nov. 2017 - May 2018

- Development of automation tools for the finance sector by means of scripting languages.
- Reassessment of the team practices and quality standards.
 - Exposed ERP APIs by COM compliant binaries
 - Implemented a C++ Command-Line application as a wrapper around Citrix streaming services.
 - Developed code standards, promoted design patterns and a Test-Driven Design approach.

IBM BTO Services Poland

Kraków, Poland

ACCOUNTANT AUTOMATION

Feb. 2017 - Oct. 2017

- Responsible for the Accounts Payable department of our client's Spanish section.
- Developing scripting Automation tools to improve efficiency of the reporting processes saving up to 8h a week per country cluster.

Profilingua and K&K Language Schools

Kraków, Poland

SPANISH TEACHER

Sept. 2016 - Feb. 2017

- More than 200 students who improved their skills and passed a diversity of certifications.

Extracurricular Activity

Programming Languages Theory

Coursera

MENTOR STAFF IN [COURSERA](#)

Jan 2018 - PRESENT

- Studied Type Systems, Closures, Abstract Syntax Trees, Language implementations, Type Safety, Introduction to λ -Calculus, a comparison between the Object-Oriented Paradigm against the Functional one.
 - Implemented a REPL in a Lisp language for a theoretical simply typed language with closures.
 - Implemented a Type Inference machine for Standard ML, in Standard ML.
 - Implemented a Tetris game in Ruby using an Object-Oriented design.
- Currently giving support to new students, participating in the forums and writing articles to promote curiosity and participation.

Embedded Projects

home, Kraków, Poland

EXPERIMENTAL DEVELOPER

Dec. 2017 - June 2018

- Initial idea to develop a hierarchycal network of controllers at home to monitor and interact weather conditions, pollution levels, ambient light environment, GSM radio messaging, scheduled events.
- Hands-on involvement into Operating System's issues like multitasking, interrupt services, and resource management. Implemented many basic elements of an OS like Atomics, Mutexes, or Schedulers, in a modern C++ generic fashion.
- UI design patterns and models of communication between processes related to hardware resources: screen and keyboard.

Other Materials

home, Kraków, Poland

STUDENT

- Plethora of online courses in platforms like Coursera or Edx.
- Open Source Contributions: [Rubberduck](#)'s VBA project on GitHub: Design Patterns, Language Analysis, Test-Driven Development, CD&CI.
- Daily reader of ACM research, with an special interest in Programming Languages Theory.
- Daily endeavour to Type Theory studies, Language Semantics, λ -Calculus and other calculi, Category Theory.

Formal Education

Instytut Cervantesa w Krakowie

Poland, Kraków

CERTIFICATE IN SPANISH LANGUAGE PEDAGOGICS

Sept. 2015 - Dec. 2015

- Learnt about the theory behind Public Speech, Group Dynamics, and Skills Learning.

Universidad Complutense de Madrid

Madrid, Spain

STUDIES IN PURE AND ABSTRACT MATHEMATICS

Sept. 2010 - Jan. 2015

- Honour Grade in General Topology. Mentions of Excellence in Algebra, Geometry and Set Theory.
- The habits of the mathematician: it's not true until you prove it, there-is-always-a-better-way way of thinking, and taste for abstractions.
- Interests in classification problems and pattern laws.

I.E.S. Luis de Lucena

Guadalajara, Spain

SCIENCES BACCALAURATE

Sept. 2008 - May. 2010

- Performant in Philosophy, Physics, Mathematics and Biology.
- Time has shown me that high-school was a lot more valuable than I thought back then. To this day, I don't see a red moon in the horizon, I see a refracted electromagnetic field stimulating cone cells which release a chain of sodium-potassium reaction along a neural axon.

Presentations

Type Theory: the programmer's free lunch.

Kraków, Poland

MOTOROLA SOLUTIONS POLAND

July 2018

- A clever introduction to typed lambda calculus and first order logic, or *Why the Von Neumann model will hamper all of your reasoning*.
- Type Systems as a holy grail of correctness: theorems as types.
- What can Parametric and Ad-hoc Polymorphism in C++ do for you (and some Haskell hints).

Hooking DLLs for more available functionality

Kraków, Poland

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Mar. 2018

- I exposed a wrap around networking binaries (Citrix, VMware) to take advantage of undocumented functionality.
- Methodically presented my ongoing R&D on this topic for further investment on the improvement of the company's models.

Interfacing to new Libraries

Kraków, Poland

IBM BTO SERVICES POLSKA

Feb. 2018

- Developed a series of COM libraries to take advantage of, in the automation of ERP systems and local databases.
- Presented it to my team, in an pedagogic and entertaining fashion, influencing the whole company development's policies.

Cultural Events










Kraków, Poland

REGIONAL PUBLIC LIBRARY OF KRAKÓW

Oct. 2015 - Jun. 2016

- Realisation of periodic events around the Spanish Language and Culture.
- Challenged my organizational and social skills, learned a lot about my culture and the culture other people.

Most Proud Of

2012		Mention of Excellence: Linear Algebra, honoured to have had an amazing teacher.	Madrid, Spain
2012		A month in the Shaolin Temple: Life changing moment. Training Kung Fu with the monks.	Shaolin, China
2014		Honour Grade: In the Subject of General Topology in Abstract Mathematics.	Madrid, Spain
2014		Karate Black Belt: My life-long lesson of discipline, perserverance, ambition, and passion.	Madrid, Spain
2015		C.A.E. English Certificate: From A2 to scoring 196/210 CAE exam in two years.	Madrid, Spain
2015		My first Bike Trip: 3400km without having cycled before.	Germany & Poland
2016		My tenancy: A second 3400km bike trip over the most montanous regions.	France, Swiss & Italy
2015-18		Learnt Communicational Polish: czy to nie supermoc?	Kraków, Poland
2017-18		Became a Software Developer: Making a career by myself. I'm proud of that.	Kraków, Poland