



**Vicente Paul Guerrero Lule**  
**Mannsfelder Str. 1**  
**50968 Cologne**  
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**+49 176 3271 5017**

- ❖ **Python for Data Science and Software Development**
- ❖ **Strong understanding on Software and Mechanics**
- ❖ **Highly experienced with Complex Systems Development**
- ❖ **Certified in Project Management and Scrum**
- ❖ **Strong Communication Skills in German, English and Spanish**

## Vicente Paul Guerrero Lule

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<https://viclule.github.io/>



## Personal Information

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Date of birth: November 2<sup>nd</sup> 1985  
Civil status: Single  
Nationality: German and Mexican

## Work Experience

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- 6/2017 - today      **Analytics and Machine Learning** – in the **Intelligent Products** team  
*Leybold GmbH, Cologne*
- ❖ Design and development of a data collection strategy from machines in the field and laboratories
  - ❖ Coordination of external technology suppliers
  - ❖ Data preparation for correlations analysis and Machine Learning
  - ❖ Feature engineering
  - ❖ Soft models development and clustering analysis
- Tools: python, jupyter, pandas, numpy, scikit-learn, tensorflow, keras, django, git, aws
- 9/2016 –5/2017      **Freelance**  
*Germany*
- ❖ Software Development
  - ❖ Development of Machine Vision applications
  - ❖ Algorithm development for optical components alignment
- 1/2013 – 8/2016      **Product Developer – Micro Assembly**  
*Micro Automation, St. Leon-Rot*
- ❖ Coordination with research institutions
  - ❖ Design and development of a software architecture for complex automation processes
- 11/2010 – 12/2012      **Research Assistant** in the **Micro Production** department  
*Fraunhofer-Institute for Production Technologies, Aachen*
- ❖ Design and development of novel concepts for the high precision assembly of optical components
  - ❖ Development of image-processing-based algorithms for the automatic assembly of complex laser systems
- 09/2009 - 08/2010      **Research Assistant** (part time) in the **Energy Efficient Buildings and Indoor Climate** department  
*E.ON Energy Research Center, RWTH, Aachen*
- ❖ Development of control software for research setups
- 03/2008 – 09/2008      **Entry engineer** in the **Performance** department  
*General Electric, Advanced Turbomachinery Engineering Center, Queretaro, Mexico*
- ❖ Analysis of thermodynamic data from aeronautic turbines tested in in-door and out-door cells
  - ❖ Software development for the accelerated analysis of thermodynamic data

## Education

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- 09/2008 – 08/2010 **Master of Science in Mechatronics**, *Fachhochschule Aachen* (1,3), Aachen, Germany
- 07/2003 - 02/2008 **Mechanical Engineer, specialty in Design**, *Celaya Technology Institute* (1,7), Celaya, Mexico

## Other Experiences

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- 04/2019 – 04/2019 Training: Moderation, Presentation and Visualization
- 06/2018 – 08/2018 Deep Learning Specialization - [Coursera](#)
- 11/2017 – 11/2017 Conference: Data Natives 2017. Data driven technologies Berlin
- 09/2016 – 01/2017 Project Management Certification, ATV, Köln
- 10/2016 – 10/2016 Conference: Data Natives 2016. Data driven technologies  
Workshop: Learn Python for Data Analysis  
Berlin
- 03/2010 – 09/2010 Master Thesis in the Micro Production department  
“Automation of the alignment process of a solid state laser resonator”  
Fraunhofer-Institute for Production Technologies, Aachen

## Publications

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C. Brecher, R. Schmitt, P. Loosen, V. Guerrero, N. Pyschny, A. Pavim, A. Gatej. Self-optimizing approach for automated laser resonator alignment. Optics and Lasers in Engineering 50 2012, 287-292.

## Language Skills

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Spanish:	Native speaker
English:	Business fluent
German:	Fluent

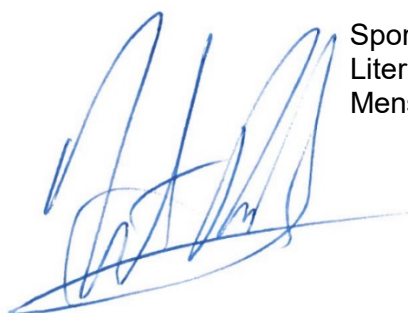
## Programming Languages

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Very good:	Python
Good:	.NET (C#), MatLab

## Interests

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Sports (cycling, swimming, jogging)  
Literature (science, history, philosophy); Traveling  
Mensa.org Member

Cologne. April 4<sup>th</sup>, 2019