

# Pham Minh Duc

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 [github.com/DucPhamBP](https://github.com/DucPhamBP)  [ducphambp.github.io](https://ducphambp.github.io)

## Profile

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I'm currently researching the design of technologies and algorithms that address supply chain challenges in developing and emerging markets, especially informal markets, by combining methods from large-scale fieldwork, optimization, computer science, econometrics & data analytics, and action research in particular in the scenario of Industry 4.0.

## Areas of Expertise

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Combinatorial Optimization - Stochastic Optimization - Machine Learning - Data Analytics & Modelling - Supply Chain Analytics - Network design & routing - Production Planning & Scheduling - Operation Excellence - Lean & 6 Sigma

## Education

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<b>Master in Data Science and Business Informatics</b>	<a href="#">University of Pisa (Italy)</a>	09/2023 - Present
Relevant Courses: Optimization for Data Science, Model Driven Decisions Making		
<b>Double Degree MSc in Production Engineering and Management</b>	<a href="#">University of Trieste (Italy)</a>	09/2019 - 03/2022
Relevant Courses: Operation Management, Data Analytics		
<b>Double Degree MSc in Production Engineering and Management</b>	<a href="#">TH-OWL (Germany)</a>	09/2020 - 02/2021
Activities: Erasmus Plus Exchange Program		
<b>Bachelor in Industrial Management</b>	<a href="#">HCMC University of Technology and Education (Vietnam)</a>	09/2014 - 09/2018

## Professional Experience

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<b>Business Analyst,</b> <a href="#">(Weave Services Limited)</a>	<b>Hongkong (remote)</b>	06/2022 - 8/2023
• Developed strong analytical capabilities to support business and operational applications, including descriptive analytics, predictive analytics.		
• Redefined the performance measurements for root cause analysis and built data analytics capability to support multi-perspective reporting and intelligent demand planning.		
• Developed S&OP product packages, including sales materials and demo product. Led the deployment of demand planning and capacity planning within the product.		
• Designed and built the algorithm to optimize required capacity, production shift and operator productivity in capacity planning project.		
• Developed Business Intelligence product packages. Developed dashboards to track the performance and perform business/ data analysis tasks for Clients.		
• Reviewed clients' businesses in the supply chain field, enhancing current factory diagnostic and operation excellence.		
<b>Production Data Analyst,</b> <a href="#">(Spartronics Vietnam)</a>	<b>Binhduong, Vietnam</b>	02/2021 - 05/2022
• Collected, processed, analyzed the data to get insights and support top leaders making decisions, problem solving and improvements.		
• Designed and built the SMT changeover process for two high-volume PCBA products, reduced setup time by 50% and increased OEE to 82%.		
• Built and deployed 20 standardized SOPs and best-practice frameworks with defined KPIs/PPIs to drive process consistency and ensure output quality across operations.		
• Developed a project that increased the First Pass Yield of Box Build products (21 SKUs) on the Tele-radio line to 98.89%, increased 4.09 sigma level, saved \$35k in 2022 for the company.		
<b>Production Engineer,</b> <a href="#">(Coherent Corp.)</a>	<b>Binhduong, Vietnam</b>	12/2017 - 09/2019
• Monitored, analyzed daily data regarding to business goals and took corrective/preventive actions to get them back on track.		
• Made weekly/daily production schedules (200 SKUs) based on master production plans with the right time, quantity, conditions.		
• Failure analysis by applying lean tools (5 whys, 5W1H, 5M1E, FMEA), mathematics techniques (6 Sigma, Reliability analysis, Pareto/SPC analysis, Cpk/Ppk, DOE) to define corrective/preventive actions regarding to quality excursions.		
• Developed a productivity improvement process for a Core-Bedding product (single SKU), reducing average labor time from 0.38 to 0.23 hours per unit and saving \$9,229.29 for the company.		

## **Teaching Assistant, (HCMUTE)**

**Hochiminh City , Vietnam** 09/2016 - 12/2016

- Studied and solved exercises in Optimization Module, with topics as: Mathematical Programming, Constrained Optimization, Simplex Algorithm, Unconstrained (Linear) Optimization, Decision Analysis.

## **Online Courses & Certifications**

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- Certified in Planning and Inventory Management (CPIM) (Sep. 2023) - [APCIS](#)
- Specialization Certificate Six Sigma Green Belt (Jan. 2023) - [The University System of Georgia, Coursera](#)
- Specialization Certificate of Analytics for Decision Makings (Jan. 2022) - [University of Minnesota, Coursera](#)
- Specialization Certificate Supply Chain Management (Nov. 2020) - [Rutgers Business School, Coursera](#)
- Specialization Certificate Project Management Principles and Practices (Oct. 2020) - [University of California, Irvine](#)

## **Skills**

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<b>Programming:</b>	Python, AMPL
<b>Databases:</b>	SQL, SSIS, MDX
<b>Statistics:</b>	R, Microsoft Excel, Minitab
<b>Optimization:</b>	CPLEX, Gurobi, HIGHS
<b>Data Visualization:</b>	Microsoft Power BI
<b>Others:</b>	LaTeX

## **Languages**

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- Vietnamese [Native]
- English [Advanced]

## **Honors & Awards**

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- Intel Product Vietnam Scholarship (2017)
- AmCham Vietnam Scholarship (2017)

## **References**

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• **Associate Professor. Elio Padoano**  
University of Trieste  
Email: padoano@units.it

• **Hoang Quoc Huy**  
(Ex.) Senior Manager at Weave Services Limited  
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