

Pham Minh Duc

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Profile

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

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

Professional Experience

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|--|---------------------------|-------------------|
| Business Analyst, (Weave Services Limited) | Hongkong (remote) | 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. | | |
| Production Data Analyst, (Spartronics Vietnam) | Binhduong, Vietnam | 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. | | |
| Production Engineer, (Coherent Corp.) | Binhduong, Vietnam | 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

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

Languages

- Vietnamese [Native]
- English [Advanced]

Honors & Awards

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

References

• **Associate Professor. Elio Padoano**
University of Trieste
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• **Hoang Quoc Huy**
(Ex.) Senior Manager at Weave Services Limited
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