

# Leandro M. F. Machado

🔧 Control and Automation Engineer

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## 👤 Professional Profile

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A detail-oriented and organized professional with a proven track record of working on multiple projects with meticulous accuracy. Thrives in fast-paced environments to meet tight deadlines. An enthusiastic and dependable team player, eager to contribute to company success through strong organizational skills and a willingness to take on added responsibilities. Demonstrates a remarkable ability to coordinate tasks and prioritize effectively, ensuring seamless project execution and operational excellence.

## 🏢 Work Experience

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Blanka - Vancouver, Canada

Jan. 2023 - Present: *Software Engineer*

- Engaged in thorough analyses of project specifications within the e-commerce domain, which facilitated the crafting of bespoke technological solutions tailored to enhance online retail environments.
- Collaborated closely with project managers dedicated to e-commerce ventures, setting and achieving ambitious yet attainable coding milestones.
- Directed a pivotal project aimed at transitioning the company's e-commerce site to a mobile-friendly design.
- Focused on enhancing the user interface and overall experience to cater to the surge in mobile shopping, thereby broadening market reach and augmenting customer satisfaction.
- Was deeply involved in full-stack development, contributing to both the front-end and back-end aspects of software solutions.
- Actively participated in leadership meetings, contributing to decision-making processes and propelling technological advancements within the company.

Blanka - Vancouver, Canada (Part-time)

Nov. 2022 - Jan. 2023: *Software Engineer*

- Took proactive measures to identify and implement significant enhancements, setting new performance benchmarks that elevated the online shopping experience for customers beyond standard expectations.
- Ensured a holistic and integrated approach to product development, maintaining consistency and quality across all stages.
- Reported directly to Doug Long, Co-founder and CTO, providing regular updates and strategic insights.

Six Factor - North Vancouver, Canada

May. 2022 - Dec. 2023: *Software Developer*

- Solved complex technical challenges by leveraging extensive knowledge of programming languages, tools, and frameworks.
- Designed and implemented scalable applications for data extraction and analysis.
- Created proofs of concept for innovative new solutions.
- Integrated third-party APIs to enhance overall application functionality and improve user experience.

- Maintained robust backend services using RESTful API designs that facilitated seamless data exchange between front-end clients and back-end systems.
- Reviewed code, debugged problems, and corrected issues.
- Mentored junior developers, providing guidance on best practices and fostering a positive team environment.

**Nabavi Advisory Inc. - Vancouver, Canada (Part-time) Mar. 2022 - Apr. 2022:** *Fullstack MERN Engineer*

- Designed and developed forward-thinking systems that meet user needs and improve productivity.
- Performed development, debugging, optimization and automation to support implementation of products and applications.
- Collaborated with other departments to facilitate successful project completion.

**Vegano Foods - Vancouver, Canada (Part-time) Aug. 2021 - Feb. 2022:** *Software Engineer*

- Rapidly prototyped new data processing capabilities to confirm integration feasibility into existing systems.
- Developed scalable and maintainable code, ensuring long-term stability of the software.
- Informed internal personnel and external stakeholders of project milestones.
- Updated old code bases to modern development standards, improving functionality.
- Integrated new technologies into existing systems, increasing capabilities and improving overall performance.

**IHM Powered By Stefanini - Belo Horizonte, Brazil Aug. 2021 - Nov. 2019:** *Software Engineer*

- Spearheaded the development of an autonomous Unmanned Aerial Vehicle (UAV) designed for operation in GPS-denied environments. Utilized a Topological Localization technique to gather point clouds from onboard sensors, which were instrumental in building a detailed operational map. [link](#)
- Customized UAV hardware by integrating additional sensors. Played a pivotal role in the installation and configuration of these components within a Linux environment.
- Programmed the UAV's operational software using C++, focusing on optimizing performance and reliability in challenging environments. Conducted rigorous laboratory and field tests to evaluate proposed development solutions, ensuring their effectiveness and safety.
- Managed instrumentation and related design components. Utilized innovative drafting and planning techniques to enhance system functionality and reliability.
- Addressed engineering problems of significant complexity, applying critical thinking to balance competing variables during situational and data analysis.
- Developed application and control systems for varying levels of complexity, supporting both capital plant and maintenance engineering projects.
- Offered technical assistance to both external and internal customers, enhancing user experience and system reliability.
- Collaborated with software development and testing teams to design and develop robust solutions that aligned with client needs for functionality, scalability, and performance.
- Revised and modularized outdated codebases, aligning them with modern development standards. This initiative significantly reduced operating costs and enhanced system functionality.

- Installed and configured various software applications, rigorously testing these solutions to ensure optimal functionality.
- Reviewed project specifications meticulously, designing technology solutions that not only met but often exceeded performance expectations.
- Regularly interacted with customers to discuss project progress. Collected and integrated feedback at different stages of development, addressing concerns directly and efficiently.

## Education

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**Douglas College - Vancouver, Canada**

**May. 2022:**

Post Graduation: Information and Communication Technology

**Universidade Federal de Minas Gerais - Belo Horizonte, Brazil**

**Aug. 2017:**

Bachelor of Science: Control and Automation Engineer

## Honors and Awards

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**2015:** Developing an automatic system scan with laser [\[link\]](#)

**2015:** Spectroscopy instrumentation for raman intraocular realization [\[link\]](#)

## Publications

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**2017:** A multi-core software design of a model predictive control for a tiltrotor UAV [\[link\]](#)

## Certifications

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-  Web Development Contest [\[link\]](#)
-  Detection and Image Analyses [\[link\]](#)
-  Modern C++[\[link\]](#)

## Technical Skills

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- ✓ Software Engineering
- ✓ System Design
- ✓ Programming Languages
- ✓ Machine Learning
- ✓ Control Systems
- ✓ Computer Vision

## Volunteer

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**Spiritist Group Cáritas - Belo Horizonte, Brazil**

**Jan. 2007 - Jan. 2020:**

- Participated as one of the coordinators of the youth group.
- Participated and conducted some of the study groups of the doctrine.






**Spiritist Group Manuel Felipe Santiago - Belo Horizonte, Brazil**

**Jan. 2007 - Jan. 2008:**

- Participated in the soup on the weekends to aid poverty alleviation.

## Languages

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-  Portuguese - Native
-  English - Full professional proficiency
-  Spanish - Professional working proficiency
-  German - Elementary proficiency
-  Japanese - Elementary proficiency