

CAMPOS LOPEZ MAXIMILIANO

Bionic Engineer

CONTACT

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WEBSITES, PORTFOLIOS

- https://www.linkedin.com/in/m aximiliano-campos-985401122/
- https://zaker04.github.io/git-Portafolio/

SKILLS

- Soft Skills: Leadership, Decision Making, Assertive Communication, Teamwork, Problem Solving, Adaptability, Working Under Pressure, Self-Motivation, Lifelong Learning
- Model evaluation, K-means clustering, Image processing, Statistical analysis, C++, C#, MATLAB, Python programming, OpenCV, App Design, Electronic Design, Data programming, Eagle, Microcontrollers Programming, CAD Design, Simulation, SolidWorks, 3D Printing, Video analytics, Deep learning algorithms, Robotics integration, Electronics

PROFILE

Bionic professional with hands-on experience in medical device design, development, and testing. Strong focus on team collaboration and achieving results, with a flexible approach to changing project needs. Proficient in CAD software, Python programming, Circuits boards, Data analysis, and biomedical instrumentation. Known for analytical thinking, problem-solving skills, and reliability.

EDUCATION

Bionic Engineer, UPIITA-IPN, Jun 2020

Bachelor of Engineering in Bionic Engineering Instituto Politécnico Nacional, UPIITA, Mexico City. Graduated June 2020. During my studies, I specialized in various areas including Sensors and their applications, Image processing techniques, Machine learning algorithms, Computer vision systems, Circuit design and implementation. These experiences have equipped me with the skills and knowledge necessary to excel in the field of bionics.

Ph.D. Nanoscience's, ENCB-IPN, May 2025

Expected Graduation Date: May 2025

During my PhD, I specialized in the development of sensors and image processing techniques to fabricate a functional prototype. This research has further advanced my skills and knowledge in these areas, allowing me to contribute significantly to cutting-edge projects in the field of Nanoscience's.

WORK EXPERIENCE

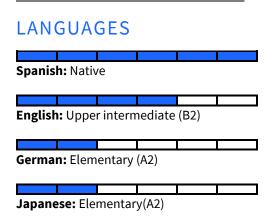
Course Teacher, IPN-UPIITA, CDMX | Mar 2025 - May 2025 working Saturdays.

- Professor of the physics course for new applicants to the IPN bachelor's degrees.
- Consistently monitored student progress using formative assessment tools, adjusting instruction as necessary to maximize achievement potential.

Bachelors Teacher, TecMilenio University, CDMX | Aug 2024 - Dec 2024

- I teached Robotics in the final semester of the Mechatronics Engineering program.
- Developed innovative teaching methods to adapt to diverse learning styles,

troubleshooting, MS office



resulting in improved student engagement and participation.

Bachelors Teacher, UACM University, CDMX | Aug 2024 - Dec 2024

 Professor at the Autonomous University of Mexico City, Mathematics Engineering Department Taught courses including Calculus and Statistics.

Bachelors Teacher, ICEL University, CDMX | Aug 2023 - Sep 2024

 Professor at ICEL University, Manufacturing and Robotics Engineering Department Taught final semester subjects including microcontrollers, sensors and actuators, and robot programming. Became the head of the robotics academy in January 2024.

JAM Participant, CDMX | Nov 2022 - Feb 2023

- Participated in Latix in a month-long JAM with my team, creating a game under pressure. Enhanced my teamwork and communication skills. https://ro-baca.itch.io
- Global Game Jam 2023 (Feb 2023): Collaborated with a team to create a game in less than 48 hours, focusing on functionality, appeal, simplicity, and minimal errors.

SNI Research Assistant, CONACYT, CDMX | Aug 2019 - Dec 2022

 Participant in the research projects of different projects in the SNI researcher assistant program by CONACYT with Dr. Juan Méndez Méndez and Dr. José Jorge Chanona Pérez.

Intern, Hospital, Zacatecas | Aug 2018 - Aug 2019

 I spent my internship at the hospital where I learned how to diagnose equipment, and how to fix equipment, social skills such as communication, and to see how maintenance work was done on certain equipment.

PUBLICATIONS

- MODELO PREDICTIVO PARA DETERMINAR LAS FIRMEZAS DE LAS MANZANAS, Based on a structural, physicochemical, and nanomechanical study of four varieties of apples.
- CLSM and TIRF images from lignocellulosic materials: garlic skin and agave fibers study. https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=202102221923636965
- Development of a facile aerogel-based ion-selective electrode using cellulose and carbon nanotubes as transducer materials for potentiometric application. https://doi.org/10.1002/app.53891
- A Comprehensive Review of Silver and Gold Nanoparticles as Effective Antibacterial Agents. https://doi.org/10.3390/ph17091134
- Advancing Microplastic Detection Technology through Digital Image Processing, Fractal Analysis, and Polynomial Approximation Methods. https://doi.org/10.1093/mam/ozae044.195