

Claudia de Jesús Gutiérrez Valdiviezo

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Senior Mechatronics Engineering Student with strong skills in communication, quick learning, and problem-solving. Seeking an opportunity in a company where I can grow professionally and contribute with innovative and efficient solutions. I am motivated by continuous learning and overcoming new challenges with enthusiasm and determination. I am currently developing the mechanical, electrical, and structural adaptation of a conventional lathe for its implementation with Computer Numerical Control (CNC) as part of my graduation project.

PROFESSIONAL EXPERIENCE

UPIITA- IPN

CNC Design and Implementation in a Conventional Lathe (Capstone Project)

Mexico City, Mexico

January 2024 – Present

- Applied the VDI-2206 methodology for project design.
- Designed the containment structure and selected electrical and electronic components for CNC implementation in a conventional lathe.
- Conducted machine condition analysis and maintenance to ensure proper adaptation to the new control system.
- Implemented the control system using Arduino and GRBL, integrating motors and controllers for process automation.

Polietipet S.A. de C.V.

Maintenance Coordinator (Professional Internship)

Teapa, Tabasco

Summer 2024

- Implemented preventive and corrective maintenance strategies in a food-grade plastic bottle production plant.
- Proposed the development and implementation of safety and hygiene manuals, as well as operational procedures to optimize machine performance.
- Designed templates for spare parts management, incident reporting, and maintenance planning.
- Supervised maintenance activities and coordinated area improvements to reduce downtime.

CYPSSA S.A. de C.V.

Electrical Maintenance Intern

Teapa, Tabasco

Summer 2021

- Participated in electrical maintenance tasks, collaborating in the repair and optimization of industrial equipment.
- Gained experience in manufacturing processes and machine operation in a production environment.

EDUCATION

UNIDAD PROFESIONAL INTERDISCIPLINARIA EN INGENIERIAS Y TECNOLOGIAS AVANZADAS

Bachelor's Degree in Mechatronics Engineering

Mexico City, Mexico

August 2019 - Present

ADDITIONAL SKILLS

- **Languages:** Spanish (Native), English (Intermediate-Advanced), Korean (Basic)