Kevin Daniel Aguilar Junco

Renewable Energy Engineering | Python, C++ and Artificial Intelligence (AI)

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SUMMARY

Renewable Energy Engineering background with 3 years of experience in Python, C++ and artificial intelligence (AI), plus analytic evaluation, design analysis and communication skills. Experience includes mechanical tests, simulation, applied AI and technical documentation for sustainable product development in Germany, aquaculture projects in the Czech Republic and software projects for international clients from requirements to delivery.

SKILLS

Analysis: analytic evaluation, design analysis, MATLAB, simulation, satellite imagery, POI data, data quality.
Systems and delivery: Python, C++, Arduino, IoT sensors, APIs, technical documentation, client communication.

PROFESSIONAL EXPERIENCE

Research Intern - Sustainable Product Development 2026
Technische Universität Chemnitz, Chemnitz, Germany

- Analyzed material resistance and stiffness through mechanical experiments and analytic evaluation in MATLAB.
- Supported design analysis of component behavior and alternatives through simulation.
- Prepared technical documentation of experimental methods and findings in English for the research team.

Founder & CEO 2025
AquaGuard, Aguascalientes, Mexico

- Solutions for water monitoring with IoT sensors, computer vision, sensor acquisition, alerts and data visualization for industry and agriculture, with stakeholder validation and product strategy.
- Participation in the UAA Entrepreneurial Bootcamp 2024 with AquaGuard: industrial leak detection and water quality monitoring.

AI Data Quality Analyst & Geospatial Intelligence Specialist 2024
TELUS Digital, Mexico

- Validation of digital maps and POI data through satellite imagery, authoritative sources and OSINT methods.
- Evaluation of search, news, audio and map-related data against structured relevance frameworks for AI products.
- Preparation of structured quality outputs in accordance with data annotation guidelines and model requirements.

Freelance Software & AI Developer 2023
Fiverr

- Management of mobile and web software projects for international clients, from requirements and implementation through delivery and support, with direct communication in English and Spanish.

Marketing Trainer 2022
WorldBrain Mexico, Aguascalientes, Mexico

- Trained teams in digital marketing, campaign automation, social media management and data analysis through workshops.

Robotics Programming Instructor 2021
WorldBrain Mexico, Aguascalientes, Mexico

- Taught Arduino, C/C++ and Python through hands-on robotics projects with sensors, actuators and introductory AI, plus STEAM methods focused on logical reasoning and problem-solving.

PROJECTS

Summer School, Institute of Aquaculture and Protection of Waters 2025, 2026
University of South Bohemia in České Budějovice, Nové Hrady, Czech Republic

- Worked on the project *Mobile app for fish identification* (2026).
- Participated in the project *Fish fins morphology detection and classification using AI* (2025).

EDUCATION

Renewable Energy Engineering, Universidad Autónoma de Aguascalientes. Completion letter pending.

CERTIFICATIONS

Robotics and Embedded Systems with Arduino
Computer Vision with OpenCV and Python
Diplomado de Inteligencia Artificial para Emprendedores y Empresarios
Curso de Introducción a la Globalización, Educación No Formal y Beneficios de las Competencias Desarrolladas mediante la Movilidad Internacional
Más que un Líder - Programa de Liderazgo Juvenil

LANGUAGES

Spanish, English