Gian Melchor A. Gella

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PROFESSIONAL SUMMARY

HND Electrical and Electronic Engineering student (University of Bolton, Ras Al Khaimah) with hands-on PLC ladder logic, Multisim, MATLAB/Simulink and SolidWorks work. Built an autonomous solar green roof for 225 AED (target 800 AED) that ran 48 hours unattended, and presented it at EISC RAK 2026. Also builds business software, including an ERP, CRM and website that are live for my own photobooth business. Seeking an internship or entry role in industrial automation, electrical design or technical operations in the UAE.

SKILLS

Engineering: Multisim, MATLAB/Simulink, SolidWorks (basic 3D modelling), PLC ladder logic (IEC 61131-3, Allen Bradley Studio 5000), Modbus TCP/IP, Arduino, technical writing

Software: TypeScript, React, JavaScript, PostgreSQL, Astro, Odoo (Studio, automated and server actions), Google Sheets and Apps Script, n8n, Claude API, Netlify

Business operations: Inventory control and reconciliation, invoicing and delivery notes, ERP implementation and UAE VAT setup, dashboards and user training, Tally, Zoho Books, advanced Excel

Professional: Cross-functional teamwork, client relationships, public speaking, report writing (APA in-text citations, Harvard reference list)

Languages: English (fluent), Filipino (native), Cebuano (native) | **Licence:** UAE light vehicle

EDUCATION

University of Bolton, Ras Al Khaimah — Currently enrolled, Year 2
HND Electrical and Electronic Engineering

PROJECTS

Solar Integrated Green Roof / IoT green roof system — 2025 - Feb 2026

- Built an autonomous solar irrigation system for 225 AED (target 800 AED) that ran 48 hours unattended.
- Developed it into an IoT design; authored and presented the technical paper at the Emirates Innovation and Sustainability Challenge, RAK, Feb 2026.

Vintage Click ERP, CRM and website (co-founder and developer) — 2026

- Full-stack ERP for my photobooth business: quotes, bookings, numbered invoices, payments, expenses, dashboards, role permissions, audit log and an approval-gated messaging core (TypeScript, Fastify, PostgreSQL, React). Live since 18 November 2026 at vintageclickuae.com.
- Lead pipeline and follow-up rules engine; bilingual English and Arabic Astro website whose quote form feeds the ERP.

WhatsApp assistant for small businesses — 2026

- Safe-by-design assistant with an input guard, fact sheet and output validator; evaluated on 43 live cases with no invented facts in the final run.

Engineering coursework — University of Bolton

- 0 to 30 V linear power supply (Multisim, LM317T): +/-10 mV repeatability, 0.01% load regulation.
- Induction motor analysis in MATLAB/Simulink: five starting methods, 80.32% efficiency at rated load.
- PLC excavator arm in ladder logic with Modbus TCP/IP and safety interlocks: 100% test pass.

Sustainable Water Filter Solution — Nov 2022 - Mar 2023

- Business Cup Challenge 2022 (Curtin University): team of 10; cut production cost by 20% using local recyclable materials.

EXPERIENCE

Vintage Click Photobooth LLC, UAE — Oct 2026 - present

Co-founder and Developer

- Co-founded a photobooth business for weddings, birthdays, graduations and corporate events, and built its ERP (quotes, bookings, numbered invoices, payments, role permissions), CRM pipeline and bilingual English and Arabic website.
- Launched the ERP and website on a private server on 18 November 2026, with nightly backups, branded email and WhatsApp reply templates.

Steel-trading company, UAE Jul 2026 - Nov 2026 | Dubai

ERP Builder and Business Systems Developer

- Built and administered an Odoo 19 Enterprise ERP replacing Excel and Tally workflows, with UAE VAT compliance built in.
- Configured a 357-account chart, 403 coded products with automatic weight formulas, 112 imported customers, 20 automation rules and 8 server actions.
- Contributed to the staff pricing and weight-calculation web app, and ran the inventory masterfile, dispatch and purchase records and reconciliation to the delivery note register.
- Automated the daily customer catalogue and management reports, and supported WhatsApp and AI marketing automation with n8n and the Claude API.

Maxim Trading LLC Jul 2024 - Jun 2026 | Dubai

Back Office Documentation Handler

- Tracked pricing data for 10+ product lines for procurement and sales decisions; coordinated weekly invoice processing and delivery scheduling.
- Student Work Immersion Coordinator (Jan - Apr 2026): ran a corporate immersion programme in logistics and supply chain for 10+ students.

IAM Worldwide May 2022 - Jun 2023 | Dubai

Sales Representative

- Maintained relationships with 7+ clients; social media campaigns raised online brand enquiries by 10%.

CERTIFICATIONS AND TRAINING

Google: Fundamentals of Digital Marketing | Google: Google Ads for Beginners | Project Network: Business Analysis and Process Management