

GARY SEATH

AI Voice Systems Engineer & Technical Builder

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EXECUTIVE SUMMARY

Hands-on AI Voice Systems Engineer with a strong foundation in Electrical Engineering and real-time embedded hardware, I2S audio streaming, custom Python bridge, and real-time integration with Gemini Live.

Combining practical voice hardware development with previous "Big 4" executive consulting experience at PwC and Deloitte. Seeking contract, freelance, or full-time roles in AI voice, conversational AI, voice agent development, or hardware-software integration — remote (UK/US) or hybrid/on-site in Johannesburg.

CORE COMPETENCIES & FEATURED PROJECT

- **AI Voice Systems:** Real-time bidirectional streaming, echo handling, PTT interface, medication reminder workflows.
- **Embedded Hardware:** ESP32 + I2S audio (mic + speaker), custom firmware.
- **Conversational AI:** Gemini Live integration, prompt engineering, natural dialogue design.
- **Technical Development:** Python (asyncio + WebSockets), Agentic AI workflows, real-time audio bridging.
- **Technical Sales & Consulting:** Built "Memory", a complete AI voice companion for elderly users featuring ESP32 integration. Lead generation, C-Suite stakeholder management, industrial automation.

Memory – AI Voice Companion

- Designed and built end-to-end AI voice companion for elderly users
- Developed Python bridge for real-time bidirectional streaming to Gemini Live
- Trained AI on being a companion with natural conversation flow

PROFESSIONAL EXPERIENCE

Brand Ambassador | MindStudio LA, from Johannesburg | Sept 2025 – Present

- Designed and deployed Agentic AI workflows and custom agents to solve complex business process challenges

Managing Director / Owner | Tides and Trails / Go With Me | 2019 – 2025

- Led business development for an award-winning travel events company representing 13 international cruise brands

Independent HR & Reward Consultant | Rosebank Union / Birches Group | 2015 – 2023

- Delivered high-level consulting on executive remuneration, benchmarking, and labour relations

Senior Manager: Executive Reward | Deloitte & PwC, Johannesburg | 2009 – 2015

- Led executive reward and NED pay benchmarking for major JSE-listed companies

National Sales Manager | Instrotech, Johannesburg | 1988 – 1993

- Led national sales for a market leader in Process Control & Instrumentation
- Built strong technical sales skills in industrial automation and sensing

TECHNICAL EDUCATION & MILITARY LEADERSHIP - 1982-1987

Diploma in Electrical and Electronics Engineering | Specialisation: Process Control & Instrumentation

Lieutenant (Signals Officer) | South African Defense Force (SADF), Heidelberg