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Paper ID : 20-Non-Invasive Wireless IoT Oil Level
Monitor using Submersible Sensors

BACKGROUND:

John Paul P. Caña has over 30 years of Research & Development and manufacturing of various electronic equipment. He founded Gintuga Technologies, an “R & D for hire” company and has patents in RF receiver application. His industry contributions cover the field of telecommunication, wireless IoT, Human Machine Interface technology, Automotive/Industrial/Scientific/Medical products, robotics, oil & gas, and mobile battery operated devices. Among them was leading the team that developed the world’s first FAA approved IoT asset tracker with FlightSafe feature. FlightSafe inhibits the tracker cellular transmission while on flight and, when safe to do so, activates it autonomously without human intervention. He currently leads the hardware engineering of NTX Embedded. He completed his undergraduate degree in Electronics and Communications Engineering in 1990 at Mapua University where he is completing his Master of Science in Computer Engineering.

PROFESSIONAL EXPERIENCE SUMMARY

- VP, TECHNOLOGY INNOVATION & BUSINESS DEVELOPMENT, NTX Embedded – Carrollton, TX (01/2022 to present)
- CHIEF DESIGN ENGINEER – Electrical, KONE INC – Smart Building Technologies, R & D - Allen, TX (05/2020 to 01/2022)
- CHIEF ENGINEERING OFFICER (Founder), Gintuga Technologies, LLC - Allen, TX (03/2004 to present)
- VICE PRESIDENT OF ENGINEERING OPERATION, Riverwood Solutions Inc. - Plano, TX (12/2014 to 03/2018)
- VICE PRESIDENT OF ENGINEERING, OnAsset Intelligence Inc. - Irving, TX (03/2011 to 12/2014)
- DIRECTOR OF ENGINEERING & BUSINESS DEVELOPMENT, Flextronics - Plano, TX (11/2004-07/008 & 03/2010 to 03/2011)
- SENIOR PRINCIPAL ENGINEER CONSULTANT (07/2008 to 03/2010)
- SENIOR MEMBER OF TECHNICAL STAFF (RF & Power Technologies) Flextronics - Plano, Texas (08/2001 to 05/2004)
- SENIOR MEMBER OF SCIENTIFIC STAFF, NORTEL NETWORKS/ BNR - Canada & US (11/1996 to 07/2001)
- SENIOR POWER DESIGN ENGINEER/EMC MANAGER, Astec Custom Power, Philippines (09/1995 to 11/1996)
- SENIOR RADIO-RF DESIGN ENGINEER/TECHNICAL PRIME, Uniden Corporation – Tokyo, Japan (06/1992 to 09/1995)

EDUCATION

Mapua University - Manila, Philippines | Masters of Science (Candidate 2023)

- Masters of Science in Computer Engineering

University of Illinois-Urbana Champaign, | EE Graduate courses, 2004

- Antenna and IC design

De La Salle University - Manila, Philippines | Bachelor of Science, 1991

- PreMedicine | Majored in Biology with focus on Medicine

Mapua University - Manila, Philippines | Bachelor of Science, 1990

- Electronics And Communications Engineering

PATENTS HELD

- **US Patent 6249552** - RF Circuit Design Patent: AF data recovery -DC Restorer circuit after demodulation in RF receiver.
- **CA Patent 2248918** - AF Recovery after FM demodulation