

Anthony Sarain

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PROFILE

A talented and accomplished software professional with over 30 years of experience developing software, making production quality audio technology, creating applications, and managing projects. Extensive experience in all aspects of computer technology including hardware drivers, web applications, networking, and server technology

PROFESSIONAL EXPERIENCE

Sarain Corp San Diego, CA
CEO/Software Developer 2008 – Present

- Maintained software for an industry leading automotive DVD player.
- Developed and managed all aspects of a consumer software/hardware project, from the development environment and coding, to automated quality assurance to verify off-shore board manufacturing.
- Innovated a hardware PWM engine using the SPI interface, including custom Linux hardware drivers and applications.
- Optimized Gstreamer/ALSA drivers and applications to create a robust audio chain for use in a consumer media playback product.

National Semiconductor Corp San Diego, CA
Senior Software Engineer 1997-2008

- Developed patented technology (US 6178245) for three-dimensional audio technology.
- Coded industry standard audio format decoders on a custom RISC DSP including MPEG-2 multichannel, MP3, Dolby Prologic, HDCD, DTS, AC3, MLP, OGG, and DRM watermarking for a DVD on-a-chip semiconductor.
- Developed Bluetooth software for a one-chip solution.
- Managed several hardware and software projects.
- Supported customers with technical information for a micro LED projector.

Gulbransen Inc San Diego, CA

Software Engineer 1990 – 1997

- Wrote a Microsoft certified WDM audio driver that has been shipped with every version of Microsoft Windows since 1997. Worked directly with Microsoft in Redmond to develop the audio driver.
- Developed technology used in Korean market leading digital piano, including audio drivers, sensing technology, human interface, and applications.
- Managed a twelve person production staff and the customer service department.
- Developed analog amplifier technology for use with musical instrument speakers.
- Designed, developed, and managed the manufacture of a custom musical instrument speaker cabinet.
- Recorded and managed audio samples used in a digital piano.

Scripps Institute of Oceanography San Diego, CA

Development Engineer 1985 – 1990

- Designed custom mechanical devices used in a half mile long crustal deformation detector.
- Managed the operation and reliability of a remote geophysical observatory.
- Drafted and supervised the manufacture of custom instrumentation.

EDUCATION

University of California, San Diego 1983-1985

B.A Physics

University of California, San Diego 1985-1987

Graduate courses in physics

The Scripps Institute of Oceanography 1987-1989

Graduate courses in geophysics

University of California, San Diego Extension 1989-1990

Project Management

SKILLS

Hardware: i86, ARM, Arduino, I.MX, RISC DSP, SPI, SD-card, USB, PWM, serial port, UART, ADC/DAC, Ethernet.

Coding Languages: C, C++, C#, assembly, Java, Java script, Perl, PHP, Python, Fortran, Pascal, BASH scripting.

Operating Systems: Linux variations, Microsoft Windows, custom.

Database: MySQL, PostgreSQL.

Linux IT: Debian, Apache, Postfix, Dovecot, DNS, DHCP, FTP, SSH, ALSA, Gstreamer.