

Ying-Hung Chen (陳穎弘)

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Objective

Seeking a senior Technical, Product Management position where I can contribute most to the company.

Summary of Qualification

- Two decades of engineering experiences across diverse technology fields such as distributed computing, cryptography, security systems, IoT, 3D and newly developed blockchain and AI based technologies.
- Remarkable leadership experience managing multiple cross-functional / multi-culture teams in tech Industry
- Immense ability to work through complex problems
- Skilled in planning, implementing and supporting enterprise-level technology systems
- Excellent organizational and problem-solving skills.
- Strong communication skills
- Ability to explain complex technical problems in easy to understand terms.
- Ability to understand problems and present clear, logical, and comprehensive plans

Work Experience

1/2019 - current **Nanjing Zeaho Electronic Technology Co., LTD. Nanjing, China**
Chief Technology Officer <https://www.zeaho.com/>

Responsible for layout overall technology and product roadmap based on company vision and delivers with excellent executions. Managing diverse teams of 50+ engineers ranging from Hardware, Firmware, Software (Front / Backend/ Mobile), and teams of AI and Data Engineers.

6/2016 – 7/2018 **StyleMe** **New York, USA; Taipei, Taiwan**
Chief Technology Officer <https://www.style.me>

Responsible for overall technology vision, product development, and customer delivery for 70+ people Fashion Tech Startup Company. Implement long term corporate strategy for 3D Virtual fitting products roadmaps. Oversee and supervise tech development with size of 60+ engineering and product teams. At the same time, co-operate with business development for corporate sales plan.

Managing diverse group of engineering and product teams:

- R&D
 - 3D Scanning / Computer Vision
 - Geometry / Simulation Processing
 - Computer Rendering
 - Mobile
 - Rig
 - Backend
 - Frontend
 - Fashion Designer / Pattern makers
- Product

- QA
- PM
- Post Production
- Marketing
- Corporate strategy

6/2010 – 2/2016
RD Manager

QNAP Systems Inc.
<http://www.qnap.com>

Taipei, Taiwan

Responsible for managing 20+ engineers ranging from hardware to frontend for NVR based product developments:

- Streaming Service (RTSP / RTMP / MPEG-DASH...etc)
- QStart (<http://www.qnapsecurity.com/feature/Qstart/>)
- Hybrid NVR
- QHome (IOT based solution)

At the same time, based on the corporate technical roadmap, I am also responsible to lead the research group for quick prototyping with the cutting edge technologies and transfer to the development team after review:

- SoC's (TI, Hisilicon, Marvell, Faraday, Ambrella...etc)
- Codecs: Intel Media SDK, VAAPI, AMD/Nvidia based solution
- IoT devices (Zigbee, Zwave, Bluetooth, wifi / Ethernet...etc)
- Systems optimizations

9/2007 – 5/2010
AVP of Engineering

Telexper Inc.
<http://www.telexper.com>

Taipei, Taiwan

Responsible to managing 12+ engineers ranging from embedded linux to windows application for surveillance based products:

- Full Range of Video Server and IP Camera Development based on Hisilicon, Faraday SoCs (from VGA to FHD resolution.)
- Video Wall Products (Hisilicon / Faraday / ST SoCs)
- CMS (Windows based application)
- NVR (Linux / Windows based)
- PA / Intercom Systems
- Design and architect project installation and configuration.

6/2006 – 2010
Lecturer

IIEDU / FITPI
<http://www.iiedu.org.tw/taipei/>
<http://www.fitpi.com.tw/>

Taipei, Taiwan

Teaching “Linux System Programming”, “Linux Network Programming” and other Linux related courses.

6/2006 – 8/2007
VP of Engineering

Fortunetek
<http://www.fortunetek.com>

Taipei, Taiwan

Responsible to manage group of 10 engineers and product team to implement embedded solution for electronic toys (e.g. talking teddy bear, toy walkie-talkie)

10/2004 – 6/2006 **Instek Digital** **Taipei, Taiwan**
RD Project Manager

Responsible to manage group of 5 engineers to implement (Hybrid) DVR / Video Server product based on H.264 HW capture cards.

3/2004 – 10/2004 **Sakersystems** **San Diego, CA**
Technical Director

Acted as a technical consultant for infrastructure and solution contracts for SMB clients.

4/2001 – 3/2004 **Lockheed Martin** **San Diego, CA**
Sr. Lead Software Engineer

Responsible to lead group of 5 engineers to design and implement crypto based infrastructure for DoD / NSA.

4/2000 – 5/14/2001 **Entropy.COM** **San Diego, CA**
Software Engineer:

Design and implement network client / server for companies distributed computing solution.

6/1998 – 4/2000 **Qualcomm/Ericsson** **San Diego, CA**
Engineering Intern

Design and implement automation testing between the large number of phone devices and the backend servers.

Education

M.S., Computer Engineering, University of California, San Diego, 3/2000
B.S., Electrical Engineering, University of California, San Diego, 6/1998

Patents

1. Co-inventor of “Physics based garment simulation systems and methods”
<https://patents.google.com/patent/US10242498B1/en> (US Patent)
2. Co-inventor of “Systems and methods for reducing the stimulation time of physics based garment simulations”
<https://patents.google.com/patent/US10373373B2/en> (US Patent)

Currently 4 US Patents pending and 12 China Patents pending

Languages / Citizenship

- Fluent in Mandarin and English, both written and spoken
- American Citizen.

Programming / Scripting Languages

C/C++, Java, Turing, MPI, BSP, Network Sockets programming, VRML, Tcl/Tk, Expect, Perl, Python, Jsp, HTML, Java Script, PHP, XML, Databases (ODBC, JDBC, SQL), .NET (C#). M68000/Sparc/MIPS Assembler

Computing Environments / Admin platforms

MS-DOS, Microsoft Windows, Windows 95/98/ME, Windows NT(3.51/4.0)/2000/XP/Vista/7/8.x/10, UNIX(SunOS/Solaris, HP-UX, Linux, AIX, Digital, *BSD, IRIX), MacOS, Android (2.x/4.x)

Technical skills summary

- Expertise in SoC/Embedded Linux development, from kernel and up. (NVR, Video server, IP Camera, Video Decoder, H.264, JPEG, MPEG4 and Audio Codecs, RTSP/RTP, ONVIF, PSIA, Android platform) Embedded platform includes ARM / MIPS platform (Hisilicon hi351x/352x, Faraday GM 818x/816x, TI81xx/385, Ambarella A5s, Marvell Soc, Stretch S7, freescale i.MX...etc)
- Comprehensive Security Expertise (Asymmetric (i.e. RSA), Symmetric (i.e. 3DES, AES) cipher, Hash (i.e. sha-1, sha-2, md5...etc), Extensive development experience with OpenSSL.
- Extensive Network sockets (IPv4/6) programming on Linux/Unix and Windows
- Extensive Multi-Threaded Application Development Using C/C++ on Win32/Unix/Linux/Embedded platform.
- Expertise in server Administration on Unix/Linux/*BSDs(i.e. email/web/DNS/YP/NFS/Samba/LDAP... etc)
- Experienced with Clusters setup conjunct with parallel/Distributed computing development (mainly Linux, including kernel hacking... i.e. Patching/Tuning the kernel from source code level.)
- Linux/Unix Development: Variety of Shell scripts, Perl, Tcl/Tk, Expect.
- Experienced with Firewalls/VPNs (IPSec, iptables, Cisco Pix), routing, network attack/Intrusion detections, Network Security Audit, (i.e. Tcpdump, Ipgrab, Snort, nmap, Nessus...etc)
- Experienced with advanced network analysis / simulation (i.e. Simulating Denial of Service (DOS)/ Distributed Denial of Service) / Integrity Audit (tripwire ..etc)
- Database programming with Oracle, PostgreSQL, MySQL.
- Web Development. (i.e. HTML, VRML, PHP, CGI)
- Parallel/Distributed Computing development: MPI, BSP.
- Comprehensive end to end 3D Processing knowledge: Computer Vision, Mesh generation, texture mapping techniques, collision detection, simulation, rendering / shading (OpenGL / WebGL / Vulkan)
- Machine / Deep Learning: Familiar with Tensorflow and related software and applications
- Cloud computing: AWS, Aliyun cloud services
- Blockchain: Familiar with blockchain technology ecosystems and went through with ICO processes. Experienced with ethereum solidity smart contract developments / tools (geth, parity, metamask, myetherwallet, ganache, truffle, remix...etc).
- Familiar with software engineering processes/tasks/platforms/trackers/tools: Requirements, design, UML, Use cases, class and sequence diagrams. (Redmine, Jenkins, Mantis, Bugzilla, Trello, Jira, slack ...etc)

Publications

L.Chen, S.Dey, P.Sanchez, K.Sekar, and Y.H.Chen, "Embedded Hardware and Software Self-Testing Methodologies for Processor Cores," in Proc. 37th Design Automation Conference, Los Angeles, California, June 2000.

Certificates

Qualcomm CDMA 120, (Concept and terminology of CDMA)
Qualcomm QCS 101, (Qualcomm CDMA System)

Affiliations

Core member of Mandrake Linux Security Team
(<http://www.linux-mandrake.com>) 1999-2001

Developer of Annvix Linux
(<http://www.annvix.org>) 2006-2008

References available upon request