

**SUMMARY**

- ❑ Eng mgr and hands-on tech lead for distributed teams (built from scratch and adopted) doing R&D for middleware products; best when working at intersection of Dev, Ops, and Prod Management
- ❑ Business/tech consultant and mentor in SW dev process, systems design, market research
- ❑ "...technical breadth, self-confidence, and presentation skills" - CEO, Lutris; "excellent" evaluations from UCSC students; see more endorsements at LinkedIn <http://www.linkedin.com/in/waynestidolph>

**EXPERIENCE****CARBONERA Consultant**

Santa Cruz, CA

10/01-pres *I consult re engineering management and systems architecture, and do hands-on dev (mostly in Java/linux ecosystem). Some examples from the last few years:*

- ❑ **Segment markets/opportunities:** for angel-funded startup with silver-nanoparticle technology (ongoing, clarified candidates to 4 options, preparing market-entry plans for a final segment selection)
- ❑ **Created systems & SW architecture:** for US Army soldier health-monitoring distributed system; evaluated subcontractor SW proposals; generated proposal content. **Result** – client won contract (also, I was then hired by that client to advise on productizing a SW process for a soldier exoskeleton)
- ❑ **Developer:** (1) wrote bash/python/java for an On Premise Deployment Kit (OPDK) for API-proxying company; I also assisted in deployment troubleshooting, and was "straw boss." **Result** – handed off a supportable OPDK (OPDK is now preferred by ~40% of customers). (2) developed extensible Compliance Test Kit for genomics data server (code at <https://github.com/wstidolph/ctk-core/>). **Result** – code adopted as baseline for Compliance component of GA4GH (<https://github.com/ga4gh>)

**APPCIO Architect and team lead (VP/Eng)**

Freedom, CA

05/06-12/10 *Appscio built an open source Media Processing Framework (MPF) for analysis components (e.g., face detectors, speech-to-text) and MPF-based custom applications using Grails, ATOM/RSS, bash, etc*

- ❑ **Startup:** Created tech vision/architecture for adding media-based events to modern applications; helped with funding presentations and technical startup. **Result** – Appscio began operations.
- ❑ **Restart:** Company had nothing delivered with about ¾ money spent, so a Board member stepped in as CEO for a company restart (on existing funding), and he brought me in as VP/Eng. I found dysfunctional team with several incomplete/off-target projects so dropped existing codebase, clarified tech approach, recruited new dev/QA teams, implemented 'agile' process to deliver on existing contract. **Result** – a delivery-focused code-owning Engineering team.
- ❑ **Engineering Execution:** We built all-new open-source MPF, and delivered it in 3 contracts; also created a cloud-resident Speech-To-Text demo app (in ~5 weeks). As a developer I defined overall app/framework architecture and built primary Grails applications and plugins; as VP/Eng I helped align product plan to strategy, set/met Eng commitments, and assisted Pro Serve and sales efforts. **Result** – delivered on multiple contracts, \$1M+ revenues while stretching cash beyond expectations.

**SIDEREAN Vice President, Engineering**

El Segundo, CA

10/04-2/06 *Siderean Software built a low-latency Faceted Navigation engine which is extraordinarily easy to use*

- ❑ **Process/Values:** Initiated metric-driven continuous integration SCRUM-like process for distributed team. **Result** – reduced delivery time 75% for a Tier 2 drop, while increasing measured quality.
- ❑ **Staff/Budget:** Led Dev, QA, and Doc through initial growth (from Founders-only to 10+ dev staff) and first use of outsourced help (UI, specialized consultants, offshore dev). Developed and slightly underspent Eng/IT budgets (cap & ops). **Result** – an energetic, confident dev team.
- ❑ **Product Delivery:** Multiple Tier 2 and 3 updates to market, and launched parallel effort to Tier 1 update (significant architectural repositioning laid basis for add-on products) **Result** – steady product stream; very short times from customer bug report to fielded fix; two new add-on products.

**LUTRIS Chief Architect, Advanced Products** *Santa Cruz, CA*  
*1/00 – 10/01 Lutris (became Gridion) provided open-source and proprietary enterprise Java infrastructure*

- ❑ **Technical Innovator:** Defined industry-leading services-oriented architecture with per-customer selectable services, safe component/pool sharing, customizable security, and deep management. Designed adaptive interceptor architecture for flexible composition of behavior and easy debugging. **Result** – flexible product; as J2EE market shifted, it was used to produce a distributed build tool and then a grid computing node, as well as remaining part of the ObjectWeb open source tool group.
- ❑ **Engineering Leadership:** Championed tech values and coherent tech vision as team grew to 40 dev worldwide (US, UK, and France). Developed code/design standards. **Result** – quickly shipped a commercial J2EE server (total 1.2M SLOC, averaged 11 SLOC/hr).
- ❑ **Open Source Coordinator:** Chaired and participated in multiple Working Groups to drive delivery. **Result** - product shipped on time with over 500KSLOC non-Lutris open source elements, and only one substantial feature slip from any open-source element.
- ❑ **Vision Evangelist:** Created/assisted white-papers, presentations, videos about services architecture. Communicated well in appropriate style at multiple levels. Presented at JavaOne (twice). **Result** –vision adopted across company and by our customers, and tech teams took ownership.

**PROGRESS SOFTWARE Architect and Senior Eng Manager, “LEAPFROG” server group** *Newark, CA*  
*7/98-1/00 Progress Software is a public company (PRGS) supplying 4GL database tools and servers to ISVs*

- ❑ **Technical Innovator:** First member of “Leapfrog group” exploring new technology. Represented Progress to ODMG (industry standards group). Defined component-oriented framework, led effort to define server. **Result** - flexible components framework; delivered EJB1.0 server with small staff.
- ❑ **Group Management (8-12 developers):** Recruited, mentored and managed dev group. Formed code-centric teams, using lightweight processes. Clarified coding values, technical ownership. **Result** – improved execution (first on-time shipment from the office, improved morale).

**VERSANT Integration Engineer, Technical Marketing** *Fremont, CA*  
*12/97-5/98 Versant (acq by Actian) was the industry leader for Object Database Management Systems*

- ❑ **Developer and Webmaster:** Created demos to show ODBMS speed advantage over RDBMS. As corporate Webmaster, simplified authoring process, implemented lead-tracking for web contacts.

**GTE Senior Member Technical Staff** *Mountain View, CA*  
*3/78-10/97 GTE Gov’t Systems (now General Dynamics Advanced Information Sys) produces advanced electronics systems; I had both technical and biz-dev roles. Sample accomplishments/roles:*

- ❑ **Led or contributed to technical aspects of business development, proposal generation, R&D, requirements engineering:** technical director, sea surface radar proposal; technical lead, high-speed signal intercept/analysis system; technical lead, manuals validation for \$15M tech manuals contract; contributor, several real-time software elements of signal processing systems; contributor, advanced concepts and commercialization studies, etc. Team sizes to 8 direct, 20 indirect.
- ❑ **Saved money and space in test effort:** Used PCs to replace complete (expensive) mockup subsystems; led development of new hardware base; wrote core interpreter for old language to reuse test code. Dramatically increased test system availability, saved money and space.
- ❑ **Built space-saving, operator assistant for diagnostics:** "Concept" tool to eliminate paper manuals and improve troubleshooting a non-stop distributed system on at-sea submarines, using interactive graphics (before the Web) and simplified AI techniques. Working prototype shown to GTE Chairman, and at AOC industry trade show in Washington DC; triggered proposal to customer.
- ❑ **Trainer:** Led presentation team for 3 iterations of 18-week teach-the-teachers course on a complex submarine system, then created software to automate curriculum rewrite for customer instructors.

## EDUCATION

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| STANFORD UNIVERSITY                 | 1995 Master of Science, Computer Science (Systems)               |
| STANFORD UNIVERSITY                 | 1992 Computer Science Certificate (Advanced Software Systems)    |
| NORTHWESTERN POLYTECHNIC UNIVERSITY | 1988 Bachelor of Science, Electrical Engineering (Valedictorian) |