SAM UMBACH

4018 Westfield Dr., Durham, NC 27705

919-698-2436 sumbach@gmail.com

SUMMARY

- Breadth of experience in several industries: gaming, healthcare, network security, music, new media
- Deep understanding of technology: I have built networks and SANs; coded assembly for embedded systems; automated build, testing, and deployment; developed in nearly every major programming language; and wrote code from simple shell scripts to video games to web applications
- Hands-on experience as an entrepreneur, making the tough decisions necessary to get a new business off the ground, and managing our customer relationships to build a dedicated community of users
- Personal love of mathematics, particularly linear, abstract, and geometric algebras

SELECTED PROJECTS

reviewshine.com
- With my co-founder, Larry Karnowski, I built a new business and web application to bring music artists together with music bloggers.
- Delivered more than 12,000 promotional copies in our first year of operation, saving artists over $35K in material and shipping costs and **nearly 20 tons of Carbon Dioxide emissions**.

testharness (Electronic Arts)
- Fully automated unit and functional testing tool for XBox 360 and PS3 consoles.
- Through an opinionated (convention over configuration) design, testharness has made it easy for developers at EA to add new test suites and automate test builds and runs on remote game consoles.
- Integrated testing support into two continuous integration tools in wide use at EA.

Fighter-Cage interaction system for EA Sports MMA (Electronic Arts)
- Created a new system to support fighter-cage interactions within the ANT animation system.
- Implemented the runtime system that runs within the game as well as the data pipeline and the authoring system.
- Artists can now set up and tune fighter-cage interactions within ANT, creating precise animations for the moments when a fighter strikes, grips, or is held against the cage.

PacketPup (Palisade Systems)
- Ported the existing PacketHound network security appliance from FreeBSD to Windows.
- Created a Windows user interface with Visual C++ and MFC.
- PacketPup was used for two years as a demonstration of Palisade's technology, offered as a free demo for users to see the network traffic reporting and control capabilities of PacketHound.
- In the UI, users could instantaneously disable traffic by protocol and see the traffic volume drop to zero, a very powerful marketing tool.