Michael Dalpee

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Dear Reviewer:

On 9/23/2016, I retired from Engineering Solutions, Inc. (ESi), ([www.enginsol.com](http://www.enginsol.com)) to move to Seabrook Island, SC. Using a software development consulting business that I started in 1996 as a launching pad, I joined forces with Ray Gomes in 1998 to create ESi. ESi’s primary business focus has been the Intelligence Community, particularly the NSA. Since ESi’s inception, I served as Executive Vice President, Chief Technology Officer, and an ESI board member in support of our President, Mr. Gomes. In this capacity, I consulted with Mr. Gomes as needed to address company business issues and devise corporate policy and strategy.

My collateral role at ESi was as a Principal System/Software Engineer, where in I worked with our customers and applied my expert technical skills to create innovative software systems that addressed critical mission requirements. As a Principal System/Software Engineer, I lead a DoD program code-named ROCKBOTTOM from its inception in 1996 to its decommissioning in April 2016. In my technical and program leadership role on ROCKBOTTOM, I was instrumental in establishing an Agile-like, iterative and incremental process to drive the development lifecycle. Under this process, I identified ROCKBOTTOM’s system requirements; derived its associated software requirements; designed its overall distributed system architecture and its object-oriented software architecture; wrote over half of its 400,000+ lines of C++ code; performed formal unit, integration, and acceptance testing; deployed it to several OCONUS field sites; and subsequently deployed numerous upgrades and enhancements during its 17-year operational lifetime. Recently, I upgraded one aspect of the ROCKBOTTOM Motif UI that displayed system messages to instead use a web app stack comprised of Icefaces/JSF, Postgres/SQL/JPA, and the JBOSS/Wildfly web server – without any prior experience with any of the component technologies. During its operational lifetime, ROCKBOTTOM experienced very few defect reports and achieved over 99% up-time performance.

As ESI’s CTO, I also devised and implemented small IR&D projects to investigate technologies that are of interest to our customers. For example, as part of a Cyber Security initiative, I implemented a C#/WPF/XAML tool using MS Visual Studio that searches the memory of a target process for matches against value arrays of arbitrary primitive data types (characters, integers, floats.) I also implemented a multi-algorithm cipher method that hardens cipher text against 3rd party analysis and created a working prototype that was programmed using MSVS 2015/C++/WUP.

I greatly enjoy the challenge of developing efficacious software systems. Throughout my long career, I have demonstrated an ability to either quickly master established software technology or innovate new software technology when necessary. I would welcome the opportunity to speak with you regarding how I can apply my considerable breadth of software system development experience towards your success.

Sincerely,

Michael Dalpee