## Attachment 3 – Staff Resumes

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|  | The Grid Protection Alliance specializes in the development and support of open source Software solutions for the electric industry.  GPA has a track record of innovation and has led major software development projects with client utilities and the Federal Government.  In addition to custom application development, GPA offers services for installation, set-up, integration, and on-going maintenance of its open-source software. |
| A person wearing a suit and tie  Description automatically generated | **Russell Robertson,** Overall Project Oversight   * Founded GPA’s open-source software and consulting-service business. * 30+ years at the Tennessee Valley Authority, last 10 leading TVA OT – including all information systems that support RC, BA, IA, TOPs and TO functions. * Expertise in grid operations, IT/OT architecture, information management, and control systems. |
| A person wearing a suit and tie  Description automatically generated | **Ritchie Carroll,** Senior Solutions Architect   * Oversees GPA software development and provides software system design and development services to utilities. * 25+ years’ expertise in high-performance software system design, development, and delivery. Has led numerous large software development projects. * 10 years at the Tennessee Valley Authority leading synchrophasor software development among other operational systems * Active participant in NASPI and other industry efforts to improve synchrophasor data systems. |

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| A person wearing a suit and tie smiling at the camera  Description automatically generated | **Dr. Christoph Lackner,** Lead Engineer   * Provides engineering support to GPA analytic applications. * 8+ years’ experience with synchrophasor data analytics and use of synchrophasor data in various applications such as state estimation, predictive maintenance and system parameter estimation. * Specializes in the development of real-time and offline data analytics for power systems. |
| A person smiling for the camera  Description automatically generated | **Stephen Wills,** Senior System Analyst   * Major contributor to GPA software solutions and provides system support and integration services to utilities. * 10 years’ experience in developing .NET solutions, much of that time contributing significantly to GPA’s core code base – the Grid Solutions Framework. * Specializes in the management of data from substation devices – PMUs, DFRs, power quality meters, and relays. * Prior to joining GPA, 2 years’ experience at the Tennessee Valley Authority in development of synchrophasor data software. |
| A person smiling for the camera  Description automatically generated | **Billy Earnest,** System Analyst   * Specializes in user interfaces/user experience, data storage, data visualization, and full-stack Web development. * Experienced with numerous front-end development JavaScript APIs including AngularJS, ReactJS, KnockoutJS, among others * Lead developer on the Open PQ Dashboard with four years of experience at GPA developing .NET and node.js web-based solutions * Specializes in computational data analytics/data science/machine learning/optimization |
|  | **Rick Driggans,** Sr. Project Manager   * Provides project management and technical writing support. * 30+ years at the Tennessee Valley Authority, serving in a variety of roles including the management of R&D projects, developing corporate performance metrics, and participating in corporate power system planning and corporate strategy efforts. * Expertise in project management, strategic planning, and environmental, energy, and natural resource management |