

Solutions Engineered for Extreme Measures

New River Kinematics (NRK) is an engineering software development firm specializing in spatial transformations and computer graphics. Since 1994, NRK has applied its flexible software tools to many engineering challenges including robotic control and simulation; coordinate metrology, engineering database management, and molecular modeling. The developers at NRK continually exceed customer expectations with fast, efficient software development and engineering expertise.

Philosophy

Our goal is to keep the software development process customer driven. Often, customers do not truly know what they want until they see an initial embodiment of the general concepts of their particular application. The antiquated process of complete product specification prior to development serves only to encumber the innovation possible with the object-oriented paradigm. By proceeding forward with development in small, iterative steps (or product life-cycles), we are able to craft our products to best meet and exceed customer expectations. This life-cycle approach is particularly well suited to modern object-oriented software development.

All NRK code is developed using Visual C++ and the associated suite of tools. Our code is fully object-oriented and makes extensive use of encapsulation, insulation, polymorphism and inheritance. This architecture makes our products reliable, maintainable, and easily adapted to changing customer needs.

Central to our process is the small, cohesive development team approach. Instead of throwing an army of programmers at a software task, we precisely guide the development using a small team with extensive knowledge about all aspects of the code base. In addition, our staff has an engineering background, enabling us to understand the customers actual engineering challenges in addition to software implementation issues.

NRK Founders

- Robert J. Salerno, PhD

Bob Salerno grew up in the Washington DC area. He attended Virginia Tech and received his Bachelors, Masters, and Doctorate degrees in Mechanical Engineering. After a brief stint in academia, he co-founded New River Kinematics and continues to work in the area of advanced Coordinate Metrology.

- Joseph M. Calkins, PhD

Joe Calkins grew up in Lancaster, Pennsylvania. He attended Virginia Tech and received his Bachelors, Masters, and Doctorate degrees in Mechanical Engineering. He co-founded New River Kinematics and continues to work in the area of advanced Coordinate Metrology.

<http://www.kinematics.com>

