

# TECHNICAL STAFF AND CONSULTANTS

---

## **Gary Mladjan, Opto-Mechanical Engineer, Vice President of Engineering and Technology, Director**

Mr. Mladjan, has over fifty years of opto-mechanical engineering experience with various defense contractors, most recently with Raytheon Corporation. Mr. Mladjan was a team member in the development of a number of electro-optical night vision and laser devices and is the primary holder of 6 U.S. Patents, a number of International Patents for those devices as well as eleven other disclosures. He was the lead engineer in the advanced conceptual design, engineering costing, product design and manufacturing on many projects at Raytheon, Hughes Aircraft, Northrop Electronics Div. and Aerojet ElectroSystems. He was a designated Raytheon corporate expert for Investment Casting and for Single Point Diamond Machining as well as a developer in the use of exotic materials and technologies for defense products. Mr. Mladjan has authored several published papers on New and Innovative Technology and Detail Design in Exotic Materials.

## **Gabriel Achenbach, Consulting Computer Aided Engineering (CAE) Engineer**

Mr. Achenbach has 15 years of experience in concept design and production development with extensive experience in precision manufacturing and design of electro-mechanical equipment and from the testing of production systems to large scale mining equipment. He holds a B.S. degree in Mechanical Engineering Technology from Eastern Washington University.

## **Jason Bishop, Consulting Computer Aided Engineering (CAE) Engineer**

Mr. Bishop has over 15 years of varied experience as a Computer Numerical Controlled (CNC) machine operator, manufacturing engineer specializing in process development, and as a Systems Engineer. Recently he has been involved as a Project Manager in Rapid Prototyping and embedded systems architecture at the Boeing Company. He holds an A.S. in Machine Shop Technology from Spokane Community College and a B.S. in Mechanical Engineering Technology, with a Physics minor from Eastern Washington University.

## **Don R. Rolfe, Mining Engineer, Vice President, Director**

Mr. Rolfe is a mine engineer with over forty years of mining industry experience. His career has included positions of Senior Mine Engineer, Chief Mine Engineer, Mine Foreman, Mine Superintendent and Mine Manager with several leading U.S. companies including Anaconda, Hecla, Union Carbide and Homestake. Rolfe has extensive knowledge of the mine planning and development process along with expertise related to the mining of various minerals including gold, silver, uranium, tungsten, phosphate, and bentonite clay.

## **Dan Nieuwsma, Consulting Laser Physicist**

Mr. Nieuwsma has over 36 years of experience leading laser system concept, research, and product design for rugged environments and production implementation. Dan was presented with Raytheon's corporate "Excellence in Technology" award in 2001 for the design of the first Military Qualified diode-pumped laser and a second award in 2007 for leading a Team for the development of an Erbium Fiber Laser. He retired from Raytheon in 2014 as Chief Laser Physicist. Mr. Nieuwsma is currently a Consultant at Satellite Consulting Inc.

## **Patrick McNenny, Consulting Optical Engineer**

Mr. McNenny received his B.S. in Optical Engineering from the Institute of Optics, University of Rochester in. In addition to managing consulting projects and writing proposals, he performs optical system designs and analyses. His strengths include project management, lens design, and system modeling. With over

30 years of experience, he has designed and analyzed optical systems in the aerospace (TRW), commercial imaging (ECRM Imaging Systems), and medical device (Baxter Healthcare, Applied Medical) industries. 1983. Since 2009 he has been Vice President for Engineering Services at Photon Engineering

**Ed Fagg, Consulting Integration and Test Engineer**

Mr. Fagg has over 35 years of experience in the fabrication, assembly and test of electro-optical and electro-mechanical instruments with Raytheon Corporation and its predecessors. He currently is the Engineering Section Manager for the “Opto-Mechanical Product development Section” and directs technical staff members that provide engineering support for both Manufacturing and Developmental Programs.

**Other Technical Support currently under Contract or Agreement**

Frencken America – Servo Systems and Software

IPG Photonics – Laser Manufacturer

Spokane Industries – Investment Casting Tooling

L.A. Aluminum – Casting Supplier