

MY BACKGROUND

My background has always been in one form or another to build, create, and make things. In short I love to engineer things. I really don't enjoy production work. I like to solve problems. This has been and always will be my first love.

After my military career in the Air Force I worked in a propulsion systems laboratory as a lab development technician, running jet engines in a test cell & working hand in hand with the project engineers designing test fixtures and special tools required for special tests we would perform. This is where I discovered my love for research and development, (R&D). I continued my education at my local college & received a degree and a federal license for working on aircraft. To this day I work on Business jets as my primary source of income.

As a side line to my day to day work I also design specialty tooling and equipment to aid in the maintenance of aircraft. Specifically the ones I work on, to make my job somewhat easier. I have marketed some of these tools to other facilities that also perform the same type of maintenance.

The courses I took in college were fairly wide in scope as aircraft systems deal with Hydraulics, Electrical, Mechanical, & Pneumatics.

As a child I loved shooting. For my seventh Birthday my father gave me my first BB gun. I grew up in Southern California and our home backed up to a big field which some nearby dairy used to grow feed for their cows. All that separated me from the field was a chain link fence. I got to shoot as often as I could coax my father out of his easy chair to supervise me in our back yard.

I never lost my love of shooting. As an adult I found Firearms to also be fun, but I had to travel so far to use them. With Airguns I could shoot every day in my yard. I always had some type of airgun around for pest control or occasional plinking in the yard.

In 1989 I decided to check into "Adult Airguns". At that time, I was looking for "POWER". And I found it in an RWS 52, .22 Cal. The local Airgun shop had been instrumental in letting me know about a local club of Airgun shooters which primarily centered on Field Target but also shot Silhouette. It was a good education as I learned a lot about the sport and met others with similar interests. It wasn't long before I had several spring guns which were more accuracy centered rather than power. Around my first year of competition I was introduced to a precharged gun. The Sportsmatch GC2. What a gun that was. No Recoil and deadly accurate. I knew then that I had to have a Precharge gun. But the price was choking me. So rather than invest my first bundle on a GC2, I decided to put it where it would serve two purposes. I bought my first machine, a lathe and shortly thereafter a mill. With these two machines I could build my own gun. And that is exactly what I did.

This first gun initiated a lot of interest in my abilities with the other shooters I met in my travels during Field Target matches I attended all over the US. Gradually I was requested to make more and more equipment for airguns.

I now have taken my first two loves and combined them into my small second business **Pneumatic Engineering**. Although I have worked on spring guns, and still do occasionally, I prefer to work on Precharges. I work on most all of them for whatever they may need.

As for Regulators:

During the time I was finalizing my first gun it was evident a regulator would be needed. I took apart every gun that I could get my hands on and analyzed the reg design for flaws. I also read up on the subject and found that the design which I decided to expand upon had been used widely in the SCUBA diving industry. I was not the first person to use the basic design, I just expanded upon it and changed certain aspects of the design to suit the needs of the airguns I was fitting the regulators too. I also changed the design to reduce wear of the internal seals, and allow for easy seal replacement when the time arose.

After my first few regulators I received a call from a gentleman who was at that time bringing in the RN-10 rifle from Air Arms. He was doing a conversion to the guns which installed a Titanium reservoir and barrel shroud. It was a nice gun but had a big flaw. The regulator. He asked if I would take on an R&D job and see what I could do. I utilized the knowledge I had acquired from all my testing and the requirements of this installation. So once again I expanded on the design I was already using and came up with a reg which was a direct screw in replacement for the original regulator and required no modifications to the gun what so ever. Word soon spread to England and I was contacted by Nick Jenkinson, a world class competitor who was sponsored by Air Arms. I sent him a few regs to try and he in turn took them to Air Arms for their scrutiny. I was informed that the regulator was fitted to an automatic test fixture which cycled the regulator for 35,000 cycles over a 2 day period with no failures. I was then contacted by Air Arms and informed they would like to use my design in their next generation of rifles.

After the success of this reg design I have expanded my approach to as many Precharge guns as possible. I make regulators for Air Arms guns, Daystate, Ripleys, Falcons, Anschutz, Fienwerkbau, Steyr, & Korean guns. When a new model comes out I go back to the drawing board.

As I stated earlier I love to do R&D, so naturally regulators are only a part of what I do. I handle special requests from individuals wanting different pieces of equipment or modifications for their guns. I also produce accessories including targets, regulator checkers, and special tools for airguns. The list can go on and on. I will not limit myself to just one idea.

I am currently working with other airgun manufacturers to improve upon some designs which could possibly help increase production and options offered to the consumer.