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### Why I started FAC Systems Inc?

When I started to work at Nortec Corporation, I learned about ultrasonics And Eddy's current equipment. First, I learned the system for thickness measurement. It was invented by Werner Sobek in 1967. [Ultrasonic thickness measurement - Wikipedia](#) I worked at Nortec from 1975-76. Werner used the same system used for ultrasound but a different transducer. The system did not have a CRT, just LCD digital reading after I changed it from an LED display and created a chip to have been portable on batteries.

The systems were the same as ultrasound medical equipment invented by Ian Donald [Who Invented Ultrasound? \(cmescience.com\)](#) Different transducers have a CRT.

Now they use the same system to avoid collisions using radars. [So what is the difference between Radar and Ultrasonic? \(heatingandprocess.com\)](#)

I learned Shoring. I realized the most economical locations of anchors happen exactly where the best for stability. So, that was good feedback. Off course, I understood feedback very well from amplifiers. So, I started investigating structural systems and what to have the best design for stability. It all boils down to systems design. I learned High Rise, and it was the same discovery, system design for stability. At the dawn of the creation of people, building structures needed stability and basic mechanics, which caused the birth of mathematics.

It is important to mention the people that got us here so we can receive blessings from God. There are many.

I was happy to start this new endeavor, take up one system, and use it for another. It became my dream in 1988 and possibly for many others.

Love you all,



Farid A. Chouery, PE, SE