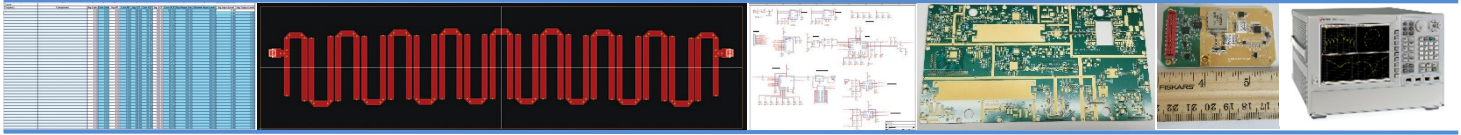
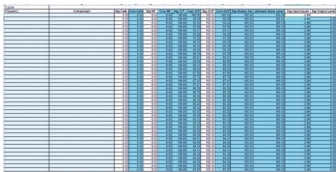




Sovereign RF Systems, LLC (SRFS) is your Greater Philadelphia, PA resource for consulting services and product design of reduced C-SWAP RF/MW and mixed-signal components, modules and subsystems from DC-40GHz. SRFS is wholly owned and operated by Mr. Michael Ferrara of Garnet Valley, PA, a BSEE graduate of Drexel University with over 25 years experience in the defense industry. Mr. Ferrara has worked on systems ranging from radars, direction finding front ends, electronic warfare, SATCOM ground systems and their associated electronics.

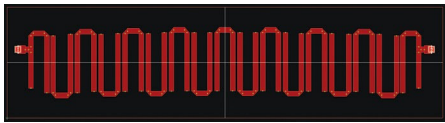


## SRFS Capabilities:



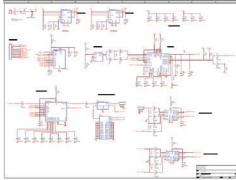
### Requirements flow down critical for successful, reduced C-SWAP systems

Requirements flow down is a critical step for successful system design. The right balance of gain, noise figure, linearity, spurious products, power consumption, modularity, and cost is required for reduced C-SWAP advanced RF/MW systems.



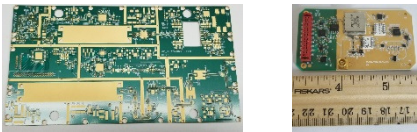
### Simulation and modeling key to producing successful first run designs

SRFS utilizes Keysight's Genesys powered with Synthesis Tools, Linear Simulation, and Planar EM Simulation (Momentum GXF) to produce successful first run RF/MW components, modules and subsystems from DC-40GHz. Mr. Ferrara has over 20 years experience utilizing these Genesys tools within a systematic engineering process that optimizes designs with as much real-world modeling as possible.



### Accurate and controlled design documentation minimizes production issues

SRFS utilizes Cadence OrCAD products to realize product design. Mechanical design is handled via a network of consulting mechanical engineers, and the same is true for any firmware/software design elements. Folder structures, part numbering and revision control insure that design documentation is accurate and up to date. In addition, SRFS backs up its information on an external system on a weekly basis.



### Fabrication and Assembly – Network of resources provide timely services

SRFS has an agile network of resources for fabrication and assembly of components, modules and subsystems. Mr. Ferrara works collaboratively with this network as if it were a direct part of SRFS.



### Testing – Flexibility in testing options

SRFS provides flexibility in its testing options:

- SRFS rents or leases the necessary equipment to perform full testing
- SRFS subcontracts out to a third party for full testing
- SRFS performs nominal testing, customer performs more extensive testing with or without SRFS present
- Customer performs full testing with or without SRFS present

SRFS was created with two purposes: Glorify God by utilizing the skills and talents given to provide the industry with quality RF/MW design and services that not only meets but exceeds customer needs. Second, to be a blessing to the Greater Philadelphia area by providing employment opportunities to those who have had personal struggles yet have skills useful to the industry, to provide cooperative education employment to train up the next generation of RF/MW Engineers, and finally to educate high school students in the challenges and rewards of a STEM career.

*Work heartily as unto the Lord – Colossians 3:23*

[www.srfsllc.com](http://www.srfsllc.com)

