

Chris Watts B.Sc

5 Pennycress Way, Bridgwater, Somerset, TA5 2FQ, UK
Land line: +44 146 256122 Mobile: +44 7715 501157
Email: chris.watts@bayfordsystems.co.uk

SUMMARY

A highly qualified RF Design Engineer and Systems Engineer with over 35 years experience in the industry. Possesses a deep knowledge of the regulatory environment, RF design and test, system design, and equipment design integration. Provides the skills and knowledge that are an essential part of the product definition process. An excellent time manager, able to work well independently but equally comfortable operating as part of a team.

KEY SKILLS

- RF circuit design
- Radio system design
- Excellent planning & organisational skills
- Experienced coach and mentor

CAREER HISTORY

Golledge Electronics March 2014 to date

Working as an applications engineer helping customers design in Golledge products. The work includes designing matching circuits for crystal filters and SAW filters. Analysing oscillator designs and helping with product selection. Assisting the sales team with technical enquiries

Bayford Systems Limited Feb 2013 to date

Founded the company to provide contract design and consultancy services.

- Designed a two band ISM transceiver for a wide area fire alarm system.
- Provided consultancy defining new uses for previous designs created for Microsemi.

Bayford Systems is dormant while Chris is employed full time at Golledge Electronics

Microsemi (formerly Zarlink Semiconductor)

March 2007 to Feb 2013

Working mainly on the product specification and design of radio modules working in the medical radio bands 401 to 406 MHz. RF IC design, working with teams in Sweden and the USA.

- Created an IC design specification based on marketing product briefs, regulatory requirements, and input from team members.
- Produced link budgets and interferer analysis for product specifications.
- Led module designs right from initial specification through to production proving.
- Provided RF test expertise that has been an essential part of de-bugging the production test of a complex RF IC. Contributed to the architecture definition of a new RF IC.

Software Radio Technology

March 2001 to March 2007

Working mainly on TETRA designs, including system level and circuit level designs. Team leader for the RF team. Provided the technical expertise to back up the sales and delivery teams.

- Defined the architecture of the receivers for a base station and a handset, as well as circuit design and integration of all the parts of the radio.
- Selected to perform a customer facing role in SRT travelling to China, South Korea, Japan, Denmark, and Italy.
- Progressed radio designs through SMT factories in China and Korea.
- Provided customer training, so that the customers engineers can maintain the design, and train their own production fault finding staff.
- Produced a development proposal to produce a lightweight aircraft transponder.

Great Circle Design

Oct 1997 to March 2001

Due to the very small size of this company, and more active projects than engineers, projects were usually completed by just one engineer, so designed the case for a project and everything in it. Working on radio equipment for the low power radio market as well a military project. Consultancy work,

- Created a 1.6Mbits/sec radio data link.
- Designed radio modules for the sun 1GHz licence free bands.
- Monitored the progress of a company contracted to do an RF IC design.

Siemens Plessey Systems

Aug 1989 to Oct 1997

Started as an RF design engineer leading the design of the RF section of a combat net radio. Role expanded to system integration and then whole equipment design for a UHF receiver.

- Created a radio development proposal winning a development contract worth over £1M.
- Performed Antenna modelling and design for a development proposal.
- Designed synthesiser, Tx PA and Rx LNA for a VHF combat net radio.

Marconi Secure Radio

Jan 1988 to Aug 1989

Working on a hand held transceiver, a combat net radio and a vehicle mounted RF PA.

Plessey Avionics

Aug 1983 to Dec 1987

Working in the new systems and techniques laboratory on many projects including a RADAR target simulator and a GPS receiver. Designed the RF part of a missile borne UHF receiver.

EDUCATION

B.S.c. Hons Electronic Engineering

LEISURE INTERESTS

Looking after a wife with our first baby expected in March 2019.