

Senior Software Engineer

Garmin Stellenbosch

April 2026

Key details

Summary:	Software development for consumer radar products
Qualifications:	Bachelor's degree in Electronic Engineering or similar
Experience:	5 or more years of experience in radar systems, embedded software, or signal processing
Location:	Stellenbosch, Western Cape, South Africa (in-person)
Starting date:	Flexible, from June 2026
Applications close:	Thursday, 30 April 2026
More info:	www.garminpuzzle.co.za
To apply:	Solve our programming challenge , and then fill in this questionnaire

Who we are

Garmin Stellenbosch is the R&D team behind Garmin's award-winning consumer radar products:

- Varia Bike radars, such as the bestselling [RTL515](#) and the brand new [RearVue 820](#)
- Golf launch monitors such as [Approach R10](#) and [Approach G82](#)
- Ballistic chronographs such as the [Xero C2](#)
- Motorcycle blind spot monitors such as the [Zumo R1](#)

Our mission is to bring radar to life!

- We explore new low-cost radar technologies
- We create amazing new products that people use every day
- We take high-quality products through mass production and into the market

If you are excited about working on the next great radar product in an energetic team environment, then Garmin Stellenbosch is the place for you!



What you'll do

We are looking for a full time **Senior Software Engineer**. In this role, you will contribute to software and algorithm development for new radar products and applications.

You will:

- Play a key role in a local radar software team that is part of an international multi-disciplinary product team
- Amaze the users of our radar products by developing and fine-tuning algorithms in a MATLAB environment
- Bring the magic into the real world by implementing algorithms in embedded C and C++
- Make our products a joy to use by creating embedded software than runs smoothly and reliably in C and C++
- Lay the foundation for a successful product by contributing to software requirements, architecture and detailed design
- Solve problems by applying sound techniques to identify the root cause and provide a reliable solution
- Help the team maintain a high standard of excellence in the team through peer reviews of software designs, algorithms and source code

You may also:

- Participate in software release testing and hardware/software integration testing
- Contribute to PC tools development using C# and Python
- Take part in exploration into new technologies
- Travel to Garmin's offices in the USA, Canada and Taiwan



What you'll need

The following skills will be essential for success in this role:

- Demonstrated ability to solve programming problems with high-quality code
- Strong proficiency writing embedded software in C or C++
- Eagerness to learn and ability to self-start
- Excellent collaboration and communication skills, to operate successfully within a local and international development team
- Ability to work independently, and also provide guidance to team efforts

And the following skills and knowledge would be highly advantageous:

- Signal processing and algorithm development for CW and FMCW radars
- Programming and data visualisation and analysis using MATLAB
- Electronic/embedded hardware design
- Electronic testing using equipment such as signal generators, oscilloscopes and spectrum analysers
- Communications protocols such as UART, SPI, I2C, and CAN, and the ability to test and debug these using tools such as logic analysers
- ARM microcontrollers from ST, Nordic, Texas Instruments and NXP
- Programming in C# or Python
- Version control tools (e.g. Git)
- Agile (Scrum) software development methodology
- Unit testing and Test Driven Development, using frameworks such as Google Test (gtest)

Apply now!

Does this excite you? Solve our [programming challenge](#), and then fill in [this questionnaire](#) to apply!

You can do the programming challenge in any language of your choice, but for this role, you'll get some bonus points if you can do it in C or C++.

If you have not received the result of your application within three weeks of applying, please consider your application to be unsuccessful. Garmin Stellenbosch reserves the right not to make an appointment for this position.

Applicants must possess a valid South African ID number. Preference will be given to Employment Equity candidates with the relevant qualifications, experience and skills.

