



HERTZWELL

Radar Algorithm Engineer

Singapore, Full-Time

Hertzwell develops hyper-resolution radars for driverless vehicles' perception and mapping applications.

In the last 10 years, driverless vehicle companies have been using laser spinning systems called LiDARs for navigation. Although LiDARs have improved in resolution, they can't penetrate rain, dust, or fog due to physical limitations of lasers. Hertzwell is developing ultra high resolution 3D imaging radars to help driverless vehicles navigate in all weather conditions. This approach uses all weather radar technology from the aerospace industry and miniaturised it to be used for driverless vehicles. Sitting at the intersection of aerospace, artificial intelligence and automotive, Hertzwell aims to deliver the next generation radar to remove the last barrier for getting driverless vehicles on roads safely.

Who?

- 3+ years academic or industry experience in algorithm development experience in conventional/novel radar signal processing, radar imaging and array processing techniques.
- Proficient in MATLAB/Python coding for algorithms development and data analyses.
- Experience in software in the loop and simulation testing for validating the performance of the developed algorithms.
- Ability to comprehensively research, understand and report on new concepts and technologies.
- Knowledge in basic machine learning algorithms like Linear regression, SVM and Random forest.

And maybe more. You don't have to be a ninja in all the above but a wizard in maths would definitely be a thing to brag about.

What?

- Develop novel radar signal processing algorithms to make driverless vehicles safer and scalable.
- Design algorithms to meet specific radar signal-processing, measurement and estimation, system-control, and system-interfacing needs.
- Develop Matlab and/or Python simulations to design and evaluate advanced radar data processing and control algorithms.
- Work with firmware engineers to optimize algorithms for hardware implementation.
- Play with high end SDR to implement novel ideas and designs.

This is a full time gig at our brand new office with a lovely view. Located at the heart of Singapore's deep technology ecosystem, so frequent encounters with driverless cars and moonshot technologies will be an everyday tale.

You might think differently, and you might work differently, so we're happy to hear from those who nail it with different working patterns. We are supporters of flexible working and lots of us have different working patterns.