

Ryan Matthews

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Engineering leader with over 10 years of experience in automated driving development, delivering business outcomes in both technical and product leadership roles. Passionate about building commercially successful software and AI rich products.



Work Experience

Chief Architect ADAS/AD Applications, LUMINAR

Jul 2022 – Present .

- Reporting to the VP of Software, I provide hands-on technical direction across the Software, SoC, and Lidar product portfolio.
- Drove fundamental changes to software strategy in response to AI-centric ADAS market trends and our market position.
- Led software related pursuit activities in securing Luminar's first large software customer.
- Built and socialized a python / jupyter based toolchain for worldwide multidisciplinary product design.

Product Owner Active Safety, LUMINAR

Sep 2020 – Jun 2022 .

- Led Development of a NCAP 2023-compliant Lidar-only active safety product
- Successfully demonstrated to leading automaker CEOs and industry icons at [CES 2022](#) and [IAA 2022](#)
- Built and mentored a high-performing ADAS development team including my successor.

Product Owner ADAS. , SAMSUNG ELECTRONICS

Apr 2019 – Sep 2020

- Led camera-only AEB NCAP 2022+ product development as the first ever safety critical application of a Samsung System on a Chip.
- Directed algorithm development SoC design to meet application requirements and safety standards.

Senior Developer. , ZENUITY (VOLVO / AUTOLIV JOINT VENTURE)

Mar 2018 – Mar 2019

- Migrated codebase to utilize a modern CI/CD environment and introduced data-driven development practices.
- Achieved milestone of having nightly functional KPI evaluations to validate any changes on a world-wide driving dataset.

Lead Feature Developer. , AUTOLIV ELECTRONICS

Oct 2016 – Mar 2018

- Developed tracking/control algorithms for novel camera-only automated driving.
- Patented technology, Major camera program wins, successful integration with partners.

Engineering Consultant. , TESIS DYNARE, MUNICH

Feb 2011 – Sep 2016

- Managed software projects exceeding \$1M budget with >10-person teams.
- Delivered ADAS and ESP algorithms to Tier 1s and German OEMs.

- Designed and supported submarine control systems on active submarines.

Education

B.Eng (Hons), Mechatronic Engineering, University of Adelaide
First Class Honours, Dean's List, Aerospace Project Award

Bachelor of Economics, University of Adelaide
Major in mathematical modelling and statistics

Relevant Skills

Software Development

- C++
- Python
- Model based development

Standards / Processes

- Functional Safety ISO 26262
- SOTIF ISO 21448
- AUTOSAR C++ 14

Further Education

- **Nov 2024:** Deep learning Specialization ([Deeplearning.ai](https://www.deeplearning.ai))
- **Sep 2023:** Creative leadership certificate (18 month program mvr.de)
- **July 2022:** Modern C++ training ([Klaus Iglberger](https://www.klaus-iglberger.com))
- **Apr 2020:** Advanced modern C++ training program ([Nicolai Josuttis](https://www.nicolai-josuttis.com))
- **Feb 2020:** Professional Scrum Product Owner ([scrum.org](https://www.scrum.org))
- **Nov 2017:** Certified Scrum Master ([Scrum Alliance](https://www.scrumalliance.org))
- **Jul 2015:** MathWorks Certified MATLAB Associate ([MathWorks](https://www.mathworks.com))
- **Dec 2014:** Certified Project Management Professional ([PMP[®]](https://www.pmi.org))

Languages

English (Native), German (Full Professional)