

## Software And System Engineer Full-Time

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Company: Bosch

Location: Melbourne

Category: other-general

**Company Description** With a proud history dating back 136 years, the Bosch Group now employs over 400,000 people across 165 countries. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. The Bosch Group's strategic objective is to facilitate connected living and innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is Invented for life. To this day, Bosch remains privately owned, with 94% held by a charitable trust. Bosch is a rather special company. As part of the Cross-Domain Computing Solutions division our team is responsible for developing innovative components, systems and functions in the fields of Driver Assistance and Automated Driving. These systems use camera, radar and other sensors to offer drivers increased levels of safety and comfort in critical situations. Whether developed to detailed customer specifications or to Bosch's own global benchmarks, the customer can be assured of the highest quality and performance in every application. With capabilities in embedded software, network protocols, cloud solutions, customer specific application and a range of sensing technologies, we can offer solutions for a variety of industries.

**Job Description** Our data delivery team is creating a link between the automated driving vehicle fleet and the cloud. An agent is running on a connectivity unit that offers features like data logging, transfer of data from vehicle to cloud, and remote configuration. The uploaded data is stored in the Cloud, where it can be analysed further. We are currently offering an exciting opportunity for a highly motivated and enthusiastic individual to join us as a Software and System Engineer

within the Driver Assistance and Connectivity department. This is a 2-year maximum-term, full time role and is based at our headquarters in Clayton, Melbourne. Salary Range: \$80,000 - \$90,000 Position responsibilities will include: Conducting software and application programs according to customer and business needs Elicitation of System and Software requirements to create a feasible design Full stack SW development from Gateway to Cloud and data analytics, including: Design and implementation of Microsoft Azure Cloud network architecture Cloud-centric software development Supporting in-vehicle integration of connectivity units IoT Device, fleet, MetaData and payload management Application development in C++ for embedded devices Infrastructure as Code development for Cloud resources Development of MetaData visualisation tools Development, implementation and testing of Public Key Infrastructure for device identity and security management Testing and deployment of solutions using CI/CD principles Continuous delivery pipeline development for software projects Development of software unit and integration tests for Cloud and embedded applications Identifying and correcting errors in system behaviour through methodical problem-solving Communication and support of internal and external customers for project delivery Maintaining project documentation in accordance with internal processes Qualifications The successful applicant will have exceptional attention to detail, the ability to prioritise tasks to meet tight deadlines, be a team player and have excellent organisational and communications skills. You should be able to demonstrate the following: An Engineering Degree in Software, Mechatronics, Computer Systems or equivalent qualification Extensive full stack SW developing IoT solutions for Automotive applications Experience in Linux/Unix as development environment High proficiency in C++, Python and Terraform, including experience using static code analysis to develop SW meeting MISRA standards Proficiency using MS Azure Cloud provider to develop solutions Experience with networking technologies, incl. cryptographic network protocols and authorisation frameworks: TCP/IP & OSI networking model, CCNA and IP networking, VPN, TLS, mTLS, SSH, OAuth protocols Experience with DevOps, SecDevOps and CI/CD tools Proficient user of SW versioning and agile project management tools. Experience using Azure DevOps (Boards, Repos, Pipelines) advantageous. Knowledge of statistical methods and number theory Exceptional attention to detail, time management and communication skills Ability and willingness to travel domestically and internationally if required Participation in global teleconferences may be required, due to our geographic location Current and valid driver's license advantageous Understanding of the following areas is advantageous: Vehicle

networks and protocols (CAN, Flexray, Automotive Ethernet) Virtualisation and container technologies (Docker) C-ITS V2X network and system architecture standards (DSRC, C-V2X, 5G) Additional Information We recognise that our employees are our greatest asset.

Through the diversity of our business and commitment to personal and career development, we can provide you with new and exciting opportunities so you can achieve your full potential! We offer our employees: The ability to work flexibly Training and development programs to help you reach your full potential 14 weeks paid (or 28 weeks at half-pay) Parental Leave for primary carer (in addition to government paid parental leave) Superannuation on unpaid Parental Leave The option to purchase additional annual leave A wide range of Health and Wellbeing programs Support and counselling services with work or personal matters through our Employee Assistance Program Up to 50 weeks Income Protection for permanent employees Diverse and exciting career opportunities, both local and international Discounts on Bosch products and as well as products from affiliated brands Your application We are committed to building a sustainable, inclusive, and diverse workforce in all its forms. We value diversity in our organisation and in our recruitment activities and believe that every voice adds value. We actively pursue a recruiting strategy that works towards eliminating unconscious bias. To apply, please submit your cover letter and resume through the online application link. Bosch does not accept any agency submissions unless approval has been given by a member of the Bosch HR Team. All agency submissions must be submitted directly to Bosch HR. Potential candidates submitted by an agency directly to any Bosch employee or manager without Bosch HR approval will not be considered by Bosch. Bosch will not be liable for a recruitment fee in these circumstances. Any agency terms and conditions must be signed by Bosch HR indicating acceptance.

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