

Why P3

The unique aspect of our business is the mindset of our employees: curious, adventurous, and innovative.

P3 consultants take on early responsibilities with clients in management consulting, diverse technology topics, and scalable IT solutions.

Make a project your project. Openness for new, innovative, and unconventional approaches; short decision paths; respectful cooperation; and fruitful synergies make us a diverse, unbeatable team and successful company - worldwide.



BRANCHE: AUTOMOTIVE / LOCATIONS: LONG BEACH (CA, USA)

Senior HiL Test Automation Engineer (m/f/d)



WHAT YOU'LL DO

- Lead the design, configuration, and maintenance of HiL systems (dSPACE, NI, Vector, or similar).
- Define test strategies, test architectures, and automation frameworks for ECU validation.
- Perform advanced fault injection, real-time simulation, and signal manipulation.
- Ensure accurate model integration (MIL/SIL to HiL) and interface with plant models.
- Debug and analyze communication issues on CAN, LIN, FlexRay, and Automotive Ethernet networks.
- Design, develop, and maintain automated frameworks for MIL/SiL/HiL testing.

WHO YOU ARE

- You have successfully completed your Bachelor's or Master's degree in Mechatronics, or a related field.
- You have 5+ years of experience working with HiL systems (dSPACE, NI VeriStand/TestStand, Vector CANoe/CANape).
- You have 3+ years of experience as test automation frameworks.
- You have strong knowledge of automotive communication protocols (CAN, CAN FD, LIN, FlexRay, Automotive Ethernet).
- You bring proficiency in test automation scripting: Python (mandatory), CAPL, MATLAB/Simulink, or C#.
- You are experienced with fault injection techniques and real-time simulation.
- Strong understanding of ECU software development life cycle and V-Model.

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Join us at

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Benefits

We offer a competitive salary with bonus potential. / You get up to 20 days PTO and 10 paid company holidays. / You can get healthcare, life insurance, dental & vision, 401(k) matching. / We invest in your growth with mentorship and a strong learning culture. / You contribute directly to advancing innovation in the sectors we operate in. / You'll take ownership of your work and see the direct results of your efforts. / We foster an entrepreneurial spirit—take initiative, own your ideas, and drive