

P é ter J ó zsef L ó dri → TIER IV (ティアフォー · Autoware)

Role: Senior Rust Systems & Real-Time Edge GPU Engineer (Autoware Autonomous Driving OS) · Comp:

\10,000,000 – \18,000,000+ JPY · Location: Shinagawa, Tokyo (品川インターシティ)

Dedicated Subdomain: <https://tier4.vaked.dev> · Portal: <https://tier4.co.jp/en/careers> (careers@tier4.jp)

01. COVER LETTER & OUTREACH MESSAGE (INMAIL / EMAIL)

Dear TIER IV Autoware Engineering & Talent Team,

I built a live interactive LiDAR perception simulation and bilingual engineering application package tailored for TIER IV in Shinagawa, Tokyo:

- Live Interactive CV (Real-Time LiDAR Point Cloud & Trajectory Planner): <https://tier4.vaked.dev>
- Formal 履歴書 + 職務経歴書 (PDF): <https://tier4.vaked.dev/resume.pdf>
- Edge & Systems Portfolio (PDF): <https://tier4.vaked.dev/portfolio.pdf>
- Full Application Dossier: <https://tier4.vaked.dev/application>

I bring 9+ years of production systems engineering across C, Rust, Go, Linux kernel internals (Inpedio kptr_restrict & eBPF), real-time 3D spatial visualization (Core Architect on Osiris — simplifaisoul/osiris), and 12.80× compressed edge GPU inference (MLX-QUANT / pureQTern). I am ready to contribute immediately to Autoware's safety-critical Rust and edge perception stack in Tokyo.

Warm regards,

P é ter J ó zsef L ó dri

<https://www.linkedin.com/in/peter-lodri/>

02. 1-CLICK LINKEDIN CONNECTION NOTE (< 300 CHARS)

Hi! I built an interactive real-time LiDAR perception & Rust systems portfolio specifically for TIER IV's Autoware engineering team in Shinagawa: <https://tier4.vaked.dev> — combining zero-allocation C/Rust engines, edge GPU quantization & OSINT 3D architecture (Osiris). Would love to connect!

03. LINKEDIN COMPANY & LEADERSHIP CONTACTS

- Company LinkedIn: <https://www.linkedin.com/company/tier-iv/>
- Company Jobs: <https://www.linkedin.com/company/tier-iv/jobs/>
- Company People: <https://www.linkedin.com/company/tier-iv/people/>
- Recruiter Search: <https://www.linkedin.com/search/results/people/?keywords=TIER%20IV%20%28Recruiter%20OR%20Talent%20OR%20Autoware%20OR%20Rust%29>

• Shinpei Kato (加藤真平) (Founder & CEO / CTO, TIER IV & Founder of The Autoware Foundation): <https://www.linkedin.com/search/results/people/?keywords=Shinpei%20Kato%20TIER%20IV>
Founder of TIER IV and Autoware, leading open-source autonomous driving OS architecture.

• Kazuya Takeda (竹田一哉) (Co-Founder & Chief Scientist, TIER IV): <https://www.linkedin.com/search/results/people/?keywords=Kazuya%20Takeda%20TIER%20IV>
Co-founder leading human-centric autonomous mobility and sensor signal processing.

• TIER IV Global Engineering Talent Acquisition (Technical Recruiting · Shinagawa, Tokyo): <https://www.linkedin.com/search/results/people/?keywords=TIER%20IV%20Recruiter%20OR%20Talent%20Acquisition%20Tokyo>
Global English-speaking engineering recruitment team in Shinagawa.

04. BILINGUAL MOTIVATION / 志望動機

TIER IV's leadership of The Autoware Foundation proves that open-source, verifiable, safety-critical engineering is the only scalable path to autonomous mobility. In autonomous vehicles, heap jitter, memory bandwidth stalls, and opaque black-box pipelines cost lives. My career bridges low-level Linux kernel/C internals, memory-safe Rust,

real-time 3D telemetry visualization (Osiris), and 12.80× compressed edge GPU inference (pureQTern / MLX-QUANT) — the exact toolkit needed to make Autoware faster, leaner, and provably deterministic.

TIER IVが主導するオープンソース自動運転OS「Autoware」は、安全性と透明性が求められる自動運転社会のグローバルスタンダードです。組み込みLinuxカーネルやC/Rustの低レイヤー実装、リアルタイム3D空間テレメトリ基盤（Osiris）、そして車載エッジGPUのメモリ帯域制約を打破する1.58ビット量子化技術（pureQTern / MLX-QUANT）を融合させ、品川のTIER IVチームでAutowareのRust化とリアルタイム知覚パイプラインの進化に貢献したいと強く志望しています。