Alexander Chen

Robotics Software Engineer

Boston, MA   alexander.chen@email.com

(555) 234-5678   GitHub | Portfolio

Robotics software engineer specializing in real-time automation

Experienced robotics developer with seven years of expertise in robotic perception, control systems, and AI-driven automation. Passionate about building intelligent robotic applications.

Professional Experience

Robotics Software Engineer

Automation Technologies Inc. | Boston, MA   *June 2020 - Present*

- Designed autonomous navigation algorithms, improving accuracy by 30%
- Optimized real-time sensor processing, reducing latency by 40%
- Develop AI-driven robotic vision, enhancing object detection efficiency

Software Engineer – Robotics Team

Robotics Solutions LLC | New York, NY   *August 2017 - May 2020*

- Integrated LiDAR-based localization, improving robot mapping accuracy
- Developed custom motion control algorithms, reducing hardware power consumption

Education

Master of Science in Robotics Engineering
Massachusetts Institute of Technology | May 2017

Key Skills

- **C++, Python, ROS, MATLAB**
- **SLAM, computer vision, motion planning**
- **Sensor integration (LiDAR, IMU, cameras)**
- **Real-time operating systems (RTOS), embedded systems**