



Robotics and Automation Software Developer

Do the words robotics, Advanced Kinematics, and Artificial Intelligence excite you?

Are you driven to discover software solutions to robotics problems that robotics companies tell you can't be done?

A start-up culture within a mature and successful company – technical challenges and high responsibility with job stability and healthy project funding. This is what ODI can offer you.

ODI has started the AKAI project to further their capabilities by researching and developing technologies using robotics and advanced software including perception and machine learning to achieve manufacturing tasks with robotics that are currently only possible with highly skilled labour.

The team is firing on all pistons developing software and hardware solutions using some of the latest technologies – ROS, custom built robots, and perception using cameras and blue laser scanners. The multidisciplinary team is built up of a combination of experienced engineers and talented career starters in the fields of mechanical, mechatronics, electrical, and software who are in constant collaboration towards a common goal. A factory and machine shop are within the same building in which to develop and test solutions.

The team is growing and is currently in need of talented software developers who are passionate about problem solving, advanced software, and robotics. You will be expected to work directly with the robots and automated equipment, and learning on the job is a must.

Requirements – Soft Skills

- Problem solver
- Team collaborator
- Self learner

Requirements – Hard Skills

- C++ and/or C#
- OOP
- Source control
- Strong algebra skills
- Awareness of and dedication to programming best practices
- Willing to work with robots and other manufacturing equipment

Bonus Points

- Robotics experience – Work, academic, or hobby
- Agile software development, Jira
- Perception – point cloud and optical cameras, PCL and OpenCV
- ROS
- C++ 11/14
- Solid modelling and CAD – SolidWorks, AutoCAD
- PLC/IPC programming – Beckhoff, Allen Bradley

Ontario Die International strives to provide balanced family/work life by offering competitive compensation package and flexible office hours with office amenities that include kitchenette with a cereal bar and hot beverages, shower facilities, ping-pong and darts in the lunchroom and barbecues/picnic tables surrounded by an award-winning landscape.

Interested candidates should submit their resume, with a cover letter to careers@ontariodie.com with "Mechatronic/Mechanical Engineer" in the subject.

We thank all applicants for their interest, however only successful candidates will be contacted.



Mechatronic/Mechanical Engineer

Position: Mechatronic/Mechanical Engineer

Employment Type: Full Time Employment

Location: 235 Gage Avenue, Kitchener, ON, Canada

Ontario Die International is the world's premier manufacturer of quality cutting tools for the automotive seating industry.

Our corporate headquarters and Advanced Manufacturing Center (AMC) are located in Kitchener, Ontario, Canada with manufacturing facilities in United States, Mexico, the Czech Republic and China.

Ontario Die International has been an industry leader for almost a century through continued investment in innovation and advancement in machine automation, product development and process improvements. The AMC features an open-concept, team-oriented environment that nurtures ideas, increases collaboration and maximizes design process efficiency. Our development team consists of full time engineers with skills in machine design, automation, and software development. Some innovative technologies developed in-house include:

- Multi-Axis Automated Manufacturing Centers utilizing latest safety equipment, PLCs and servo drive components
- Custom Multi-Faced form tooling for manual forming machines
- High level CAD/CAM software to process customer CAD data and control automated production machinery
- Vision technology to support customers part flow management and inventory control
- Vision technology for measuring and identifying tooling features to improve accuracy of produced cutting tools

We are looking for a proficient and creative Mechatronic / Mechanical Engineer to join our expanding AMC team on a full-time basis as we develop the next generation manufacturing work cell based on Artificial Intelligence and Industry 4.0 concepts.

Candidates must be passionate and enthusiastic about machine/automation design with mechanical and electrical aptitude. Candidates will be required to:

- Manage projects independently with minimal supervision and complete them on-time.
- Reliably plan and estimate development time requirements
- Maintain up-to-date knowledge on evolving industry best-practices and learn new technologies.
- Efficiently and clearly communicate ideas
- Practical experience with CAD Software (SolidWorks, AutoCAD)
- Experience working with vendors/contractors, specifying requirements and negotiating timelines for machine component manufacturing.

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Mechanical/Mechatronics Testing and Modelling Engineer

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The team is growing and is currently in need of an individual to create and conduct test plans for automated manufacturing processes, analyze the results, derive models, and apply them to improve the control process. You will be expected to work directly with the robots and automated equipment, and learning on the job is a must. As a testing and modeling engineer, you will liaison between the mechanical design, software development, and production teams, and develop and enhance the technology to the point where it is production ready.

Requirements – Soft Skills

- Problem solver
- Team collaborator
- Self learner

Requirements – Hard Skills

- Hands-on - able to work intimately with automated machines to understand, test, and model their behaviors
- Application of scientific method
- Design and execution of test plans
- Analyzing and reporting on test results, and drawing conclusions
- Test documentation
- Utilizing knowledge acquired from testing to improve the system - mechanical and control
- Utilizing sensors, DAQ, and other apparatus to collect data
- Ability to read, understand, and modify control source code - C++, C# preferred
- Intermediate understanding of steel behavior

Bonus Points

- Robotics experience – Work, academic, or hobby
- Agile development, Jira
- Source control - Git, Mercurial
- Perception – point cloud and optical cameras, PCL and OpenCV
- ROS
- Solid modelling and CAD – SolidWorks, AutoCAD
- PLC/IPC programming – Beckhoff, Allen Bradley

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