

POSITION: Senior Software Engineer
DEPARTMENT: Engineering
EMPLOYMENT STATUS: Full-time



**Construction
Robotics**
Advancing Construction

PRIMARY JOB FUNCTION AND SCOPE

Construction Robotics is seeking a Senior Software Engineer to design and develop a CAD software application for modeling masonry walls. Information from the CAD model will be used to control robotic automation equipment for the construction industry. Construction Robotics is a growing start-up company in a fast paced, exciting phase of development. The ideal candidate is resourceful and goal oriented; a strong individual contributor and works well in a team environment.

DUTIES & RESPONSIBILITIES

- Architect and oversee the development of a CAD software application.
- Design and optimize a 3D modeling environment that can render large numbers of polygons efficiently.
- Develop math algorithms to support 3D manipulation of solid objects.
- Manipulate and operate on large sets of data quickly with efficient use of memory.
- Design complex graphical user interfaces to be intuitive and easy to use.
- Develop an interface to connect with databases or web servers for data sharing.
- Design a webpage that allows 3D CAD models to be viewed online.
- Work with other team members to learn and develop the overall system control strategy.
- Any other task assigned by management within scope of position, federal and state regulations.

EDUCATION and/or EXPERIENCE

- Required BS Degree in Computer Science.
- Minimum of 7-10 years of experience.

PREFERRED SKILLS

- C#, .net, C++, SQL
- OpenGL, DirectX, Vulkan
- 3D rendering in: WebGL, HTML5, Javascript, etc.
- Homogenous transformations for 3D graphics.
- Designing and writing software or leading software design efforts.
- Excellent problem solving skills, flexible, resourceful and independent.
- Strong communicator, planner with a positive attitude.
- Familiar with AutoCAD and/or Rhino a plus.

How to Apply

Please send resumes to

hiring@construction-robotics.com

(585) 742-2004

About Construction Robotics, LLC.:

Construction Robotics (CR) was established with the goal of advancing construction through the use of robotics, automation, and the same principles used in manufacturing. CR is a growing startup company developing the world's first commercially available semi-automated robotic bricklaying system that will revolutionize the masonry industry. We are committed to inventing, developing, and commercializing advanced construction technologies that can help reduce cost and project time.