

**FOR  
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**Gamma Two Robotics  
Where's *Your* Robot?**

## **Autonomous Robot Completes “Full Day’s Work” Unassisted**

Gamma Two Robotics’ security robot ‘Vigilus’ recently completed a full day’s work, patrolling a parking garage for eight hours. The robot traveled over three miles, made 58 rounds, and reported the few anomalies it encountered to the Security Command Center (SCC). And it did it all on its own, autonomously. No person helped the robot, told it how to navigate the garage, when to yield to moving cars, nor how to avoid obstacles in its path.

“For robots to be truly useful, they have to operate in dynamic, human-centric environments. Robots must be able to reason about their environment, make decisions regarding anomalies, and react appropriately, all the while completing their assigned tasks” said co-inventor Dr. Louise Gunderson.

“Our focus has always been on making people’s lives better by providing an affordable, autonomous tool to perform tasks that humans shouldn’t, such as entering dangerous environments, or don’t do well, like the repetitive task of security patrol. People get bored, have stressors that distract them, or physically don’t feel up to the challenge of patrolling a cold parking garage for a full shift. Our robots have a Cybernetic Brain that gives them the ability to make appropriate decisions in a given environment, react, and keep on going” said Dr. James Gunderson, the robots’ other inventor.

The Vigilus model of robot has been designed to patrol spaces, such as warehouses, event centers, museums, and art galleries, at night when these places are largely unoccupied. Though designed for “night patrol” the robot can discern the difference between people and objects, and maneuver around both if necessary. In addition to the camera, the robot can carry a variety of sensors to monitor for conditions such as temperature, smoke, water, and hazardous gases. If user-defined thresholds are exceeded, the robot will alert the humans in the SCC. In the near future the robot will be able to discern minute changes in the environment, such as a chair that has been moved, and alert humans to the changed condition.

The robot can patrol for an extended period of time without a break, unlike its human counterparts. The robot has been designed to fill a void in the job market. “Even in these uncertain economic times, with 8.5% unemployment nationwide, an average of 1500 ‘patrol and report’ security officer jobs remain unfulfilled, meaning there are hundreds of businesses that are not protected. That may seem incredible, but these sorts of jobs often pay minimum wage, require passing of a background check and drug test, are disruptive to family and social life, and are, from my personal experience, incredibly dull” said co-inventor Dr. James Gunderson.

Inventors Dr. Louise Gunderson and Dr. James Gunderson pride themselves in not only creating the Cybernetic Brain that allows their robots to work autonomously, but in crafting a useful robot that is also affordable. The Vigilus model will be available 3Q 2012, at a cost that is less than a one-year fully-burdened salary for a security officer.

*Gamma Two Robotics is a Denver, Colorado based company, with the vision to create a world in which people live better lives assisted by affordable, reliable, and helpful robots. For more information about our robots, or to speak with the inventors, please contact Pam Gheysar, Director of Marketing. You may also visit us at our monthly open house, the first Friday of every month, 6-9 p.m. at 209 Kalamath Street, Unit 13, Denver. [gamma-two.com](http://gamma-two.com)*