

## **For Immediate Release:**

### **GeckoSystems Demos Mobile Robot for International Marketers**

CONYERS, Ga., June 16, 2011 -- GeckoSystems Intl. Corp, a dynamic leader in the emerging mobile robotics industry revolutionizing their development and usage with "Mobile Robot Solutions for Safety, Security and Service™," (Pink Sheets: GOSY | <http://www.geckosystems.com/>) -- revealed today their recent meeting with the senior management of the Japanese trade organization, ALTA America Corp.

This high level, international marketing meeting was with ALTA officers Msrs. Hirokatsu Hibino, CEO; Kazuo Yamashita, COO; and Katsuji (Ken) Fujii, VP; was arranged by GeckoSystems' primary Japanese business development representative, Mr. Hajime Yasumatsu, Chairman of Yasu, Inc. The meeting was held at one of the downtown Marriott conference centers in Atlanta, GA. Several videos of this public demonstration of the CareBot™ are available on GeckoSystems' website ( <http://www.geckosystems.com/timeline/?year=2011> ) One may note that a person using a joystick could not do so as smoothly as GeckoNav™ is in guiding the CareBot in the videos.

"We had a good demonstration and discussion with Mr. Spencer and his staff. We witnessed their CareBot self guiding and avoiding many obstacles --some moving-- with no collisions. We heard the robot interact verbally while automatically moving. We discussed the direct manufacturing cost structure of their mobile robots and desired royalty arrangements with Mr. Spencer. We were very much impressed and look forward to exposing their mobile robot solutions to our dozens of international affiliates," remarked Mr. Fujii.

Activities have increased greatly at GeckoSystems this summer. In addition to the recent meeting with ALTA representatives, the company has settled nicely into their new R&D facility. Work has begun to "collision proof" the Imasen wheelchair recently received. The ALTA representatives expressed great interest in the upgrade kit for wheelchairs as well as the many other applications for GeckoSystems' proprietary robotic technologies.

"It was indeed a pleasure and very satisfying to demonstrate some of our mobile robot solutions to this knowledgeable senior management team from Japan. Once again, Mr. Yasumatsu has performed very well for us. We are excited as we move forward with ALTA in the expansion of our international marketing activities.

"Of course due to the delicacy and sensitivity of our ongoing domestic and international discussions regarding our mobile robot solutions, it would be inappropriate to reveal more details at this time. However, given the demonstrable performance by Mr. Yasumatsu, I believe there is reason for continued optimism for additional successes due to the recent demonstrations and discussions with the ALTA group. This is yet another illustration that our suite of proprietary mobile robot solutions has significant international market potential. These ongoing --and potentially very fruitful-- discussions position us on the cusp between being a Development Stage and an Emerging Growth company. Our continued marketing progress bodes well for our nearly 1,400 stockholders and a satisfying ROI for them," concluded Martin Spencer, Pres./CEO, GeckoSystems Intl. Corp.

### **About ALTA America Corp.:**

ALTA is now promoting work of Technology Web Site- TECHNO TUBE for protecting special, unique technology of medium and smaller size enterprises. Techno Tube offers a world first technology website

service which connect industries all over the world each other, and thus will contribute to the development of the world economy. The industries all over the world are always looking for the economical sites for their production and tie-up candidates on the worldwide basis,

1. Technology Web site "TECHNO TUBE" will bring you New Technologies, New Products, New Markets, New Businesses, and New Customers.

2. TECHNO TUBE directly connects clients to the procurement divisions of more than 200,000 companies and show them how your Products and systems to be utilized efficiently.

Member of Consortium for Advanced Management International, CAM\*I

<http://www.altamg.com>

### **About Yasu, Inc.:**

Yasu is a U.S. corporation domiciled in Missouri that provides professional services including business development support, networking events, extensive market intelligence, access to bilingual Japanese businesses, and English to Japanese translation of sales and technical information.

### **About the CareBot:**

GeckoSystems has focused on mobile robot safety for over thirteen years. Their first product, a family care robot, has multiple layers of safety precautions. These safeguards are enabled three ways: mechanical, electronic, and using AI computer software.

- First, the robot is very stable and difficult to tip over since nearly seventy percent of its weight is less than eight inches above the floor and sits low between large, ten-inch diameter wheels. The wheels are wide and soft enough such that if the robot did go over a child's arm, for example, it would not break the skin or any bones.
- Second, multiple layers of sensors are fused to provide a safety umbrella to enable actionable situational awareness. Going outward from the center of the CareBot is the GeckoTactileShroud(tm), which detects where on its shroud it has been bumped by people or animals. The GeckoImager(tm) detects virtually everything in the front and to the sides of this fully autonomous mobile robot up to sixty inches. Obstacles more distant are detected by twin ultrasonic rangefinders.
- Third, the advanced AI navigation software, GeckoNav(tm), takes in the hundreds of sensor readings per second and using its high level situational awareness, consistently avoids unforeseen static and/or dynamic obstacles for safe movements.

Like an automobile, the CareBot is made from steel, aluminum, plastic, and electronics, but with ten to twenty times the amount of software running. It has an aluminum frame, plastic shroud, two independently driven wheels, multiple sensor systems, microprocessors and several onboard computers connected by a local area network (LAN). The microprocessors directly interact with the sensor systems and transmit data to the onboard computers. The onboard computers each run independent, highly specialized cooperative/subsumptive artificial intelligence (AI) software programs, GeckoSavants, which

interact to complete tasks in a timely, intelligent and common sense manner. GeckoSuper, GeckoNav, GeckoChat, GeckoScheduler and GeckoTrak are primary, high level GeckoSavants. GeckoNav is responsible for maneuvering, avoiding dynamic and/or static obstacles, seeking waypoints and patrolling. GeckoChat is responsible for interaction with the care-receiver such as answering questions, assisting with daily routines and reminders, and responding to other verbal commands. GeckoTrak, which is mostly transparent to the user, enables the CareBot to maintain proximity to the care-receiver using sensor fusion. The CareBot is a new type of Internet appliance, a personal assistant life support robot, which is accessible for remote video/audio monitoring and telepresence.

### **About the Company:**

Since 1997, GeckoSystems has developed a comprehensive, coherent, and sufficient suite of hardware and software inventions to enable a new type of home appliance (a personal companion robot) the CareBot(tm), to be created for the mass consumer marketplace. The suite of primary inventions includes: GeckoNav(tm), GeckoChat(tm) and GeckoTrak(tm).

The primary market for this product is the family for use in eldercare, care for the chronically ill, and childcare. The primary distribution channel for this new home appliance is the thousands of independent personal computer retailers in the U.S. The manufacturing infrastructure for this new product category of mobile service robots is essentially the same as the personal computer industry. Several outside contract manufacturers have been identified and qualified their ability to produce up to 1,000 CareBots per month within four to six months.

The Company is market driven. At the time of founding, nearly 14 years ago, the Company did extensive primary market research to determine the demographic profile of the early adopters of the then proposed product line. Subsequent to, and based on that original market research, they have assembled numerous focus groups to evaluate the fit of the CareBot personal robot into the participant's lives and their expected usage. The Company has also frequently employed the Delphi market research methodology by contacting and interviewing senior executives, practitioners, and researchers knowledgeable in the area of elder care. Using this factual basis of internally performed primary and secondary market research, and third party research is the statistical substance for the Company's sales forecasts.

Not surprisingly the scientific statistical analyses applied revealed that elderly over sixty-five living alone in metropolitan areas with broadband Internet available and sufficient household incomes to support the increased costs were identified as those most likely to adopt initially. Due to the high cost of assisted living, nursing homes, etc. the payback for a CareBot is expected to be only six to eight months while keeping elderly care receivers independent, in their own long time homes, and living longer due to the comfort and safety of more frequent attention from their loved ones.

The Company's "mobile robot solutions for safety, security and service(tm)" are appropriate not only for the consumer, but also professional healthcare, commercial security and defense markets. Professional healthcare require cost effective, timely errand running, portable telemedicine, etc. Homeland Security requires cost effective mobile robots to patrol and monitor public venues for weapons and WMD detection. Military users desire the elimination of the "man in the loop" to enable unmanned ground and air vehicles to not require constant human control and/or intervention.

The Company's business model is very much like that of an automobile manufacturer. Due to the final assembly, test, and shipping being done based on geographic and logistic realities; strategic business-to-business relationships can range from private labeling to joint manufacturing and distribution to licensing only.

Several dozen patent opportunities exist for the Company due to the many innovative and cost effective breakthroughs embodied not only in GeckoNav, GeckoChat, and GeckoTrak, but also in additional, secondary systems that include: GeckoOrient™, GeckoMotorController™, the GeckoTactileShroud™, the GeckoImager™, and the GeckoSPIO™.

### **What Does a CareBot Do for the Care Giver?**

The short answer is that it decreases the difficulty and stress for the caregiver that needs to watch over Grandma, Mom, or other family members most, if not much, of the time day in and day out due to concerns about their well being, safety, and security.

But, first let's look at some other labor saving, automatic home appliances most of us use routinely. For example, needing to do two or more necessary chores and/or activities at the same time, like laundering clothes and preparing supper.

The automatic washing machine needs no human intervention after the dirty clothes are placed in the washer, the laundry powder poured in, and the desired wash cycle set. Then, this labor saving appliance runs automatically until the washed clothes are ready to be placed in another labor saving home appliance, the automatic clothes dryer. While the clothes are being washed and/or dried, the caregiver prepares supper using several time saving home appliances like the microwave oven, "crock" pot, blender, and conventional stove, with possible convection oven capabilities.

After supper, the dirty pots, pans, and dishes are placed in the automatic dishwasher to be washed and dried while the family retires to the den to watch TV, and/or the kids to do homework. Later, perhaps after the kids have gone to bed, the caregiver may then have the time to fold, sort, and put up the now freshly laundered clothes.

So what does a CareBot do for the caregiver? It is a new type of labor saving, time management automatic home appliance.

For example, the care giver frequently feels time stress when they need to go shopping for 2 or 3 hours, and are uncomfortable when they have to be away for more than an hour or so. Time stress is much worse for the caregiver with a frail elderly parent that must be reminded to take medications at certain times of the day. How can the caregiver be away for 3-4 hours when Grandma must take her prescribed medication every 2 or 3 hours? If the caregiver is trapped in traffic for an hour or two beyond the 2 or 3 they expected to be gone, this "time stress" can be very difficult for the caregiver to moderate.

Not infrequently, the primary caregiver has a 24 hour, 7 days a week responsibility. After weeks and weeks of this sometimes tedious, if not onerous routine, how does the caregiver get a "day off?" To bring in an outsider is expensive (easily \$75-125 per day for just 8 hours) and there is the concern that medication will be missed or the care receiver have an accident requiring immediate assistance by the caregiver, or someone they must designate. And the care receiver may be very resistant to a "stranger" coming in to her home and "running things."

So what is it worth for a care receiver to have an automatic system to help take care of Grandma? Just 3 or 4 days a month "off" on a daylong shopping trip, a visit with friends, or just take in a movie would cost \$225-500 per month. And that scenario assumes that Grandma is willing to be taken care of by a "stranger" during those needed and appropriate days off.

So perhaps, an automatic caregiver, a CareBot, might be pretty handy, and potentially very cost effective from the primary caregiver's perspective.

### **What Does a CareBot Do for the Care Receiver?**

It's a new kind of companion that always stays close to them enabling family and friends to care for them from afar. It tells them jokes, retells family anecdotes, reminds them to take medication, reminds them that family is coming over soon (or not at all), recites Bible verses, plays favorite songs and/or other music. It alerts them when unexpected visitors, or intruders are present. It notifies designated caregivers when a potentially harmful event has occurred, such as a fall, fire in the home, or simply been not found by the CareBot for too long. It responds to calls for help and notifies those that the caregiver determined should be immediately notified when any predetermined adverse event occurs.

The family can customize the personality of the CareBot. The voice's cadence can be fast or slow. The intonation can be breathy, or abrupt. The voice's volume can range from very loud to very soft. The response phrases from the CareBot for recognized words and phrases can be colloquial and/or unique to the family's own heritage. The personality can range from brassy to timid depending on how the care giver, and others appropriate, chooses it to be.

Generally, the care receiver is pleased at the prospect of family being able to drop in for a "virtual visit" using the onboard webcam and video monitor for at home "video conferencing." The care receiver may feel much more needed and appreciated when their far flung family and friends can "look in" on them any where in the world where they can get broadband internet access and simply chat for a bit.

Why is Grandma really interested in a CareBot? She wants to stay in her home, or her family's home, as long as she possibly can. What's that worth? Priceless. Or, an average nursing home is \$5,000 per month for an environment that is too often the beginning of a spiral downward in the care receiver's health. That's probably \$2-3K more per month for them to be placed where they really don't want to be. Financial payback on a CareBot? Less than a year- Emotional payback for the family to have this new automatic care giver? Nearly instantaneous-

Facebook:

<http://www.facebook.com/group.php?gid=140182685996116&v=wall>

YouTube:

Kinect Enabled Personal Robot video:

<http://www.youtube.com/watch?v=kn93BS44Das>

In this video one will observe static and dynamic obstacle avoidance into and back out of a cluttered and narrow "gauntlet alley." One may determine that the movements are smoother than what most people could do using a joystick, human controlled mobile platform. One will witness three low levels of obstacle avoidance: reactive, proactive, and contemplative. No prior mapping or path planning was performed before or during the demonstration run. GeckoNav, the AI savant doing the guiding, controls all mobile activities during this demo. You will witness subsumptive AI behaviors occurring as obstacle avoidance subsumes way point seek and vice versa with an emergent behavior expressed as errand running down a cluttered hallway and back without any human intervention.

Elder Care Robot Trial Video 2, Stationary View

<http://www.youtube.com/watch?v=smUN>

[Nls4LJtY&feature=player\\_embedded#at=16](http://www.youtube.com/watch?v=smUN)

One CareBot™ One Family

[http://www.youtube.com/watch?v=xxK46chfP6A&feature=mfu\\_in\\_order&list=UL](http://www.youtube.com/watch?v=xxK46chfP6A&feature=mfu_in_order&list=UL)

Mobile Robot Navigates Dining Room & Kitchen

[http://www.youtube.com/watch?v=S\\_jd9\\_0W9mE&feature=mfu\\_in\\_order&list=UL](http://www.youtube.com/watch?v=S_jd9_0W9mE&feature=mfu_in_order&list=UL)

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**Safe Harbor:**

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