

Assistive Technology for Aging in Place

**Carolyn Phillips,
Liz Persaud &
Rachel Wilson**

With contributions from the Tools
for Life team and Network



DATHA
Atlanta, GA
December 15, 2015

Tools for Life
www.gatfl.gatech.edu

Agenda



- This talk will present what's new in AT and the Aging in Place movement as we explore where we were, where we are, and perhaps, where we are going. During the session presenters will share information about low, middle and high tech assistive technologies. Discussion will focus on tracking technological trends including apps, mobile devices, robotics, wearable technologies and more. Apps to assist with aging well will be shown and resources for tracking trends will be shared. There are many obstacles older individuals encounter daily that can hinder them from remaining at home and in the communities of their choice.
- Please join us for an insightful session that will shed some light on assistive technology strategies, solutions and devices that are used to help individuals age successfully in communities of their choice. Presenters will share real-life examples of AT that assists with fall detection and prevention, environmental control, memory, healthy-living, hearing, seeing, communication, and computer access. If you are currently working with or have family and friends that would like to age in place successfully, then this session is for you!



AMAC Accessibility



AMAC creates practical solutions that work, with a focus on utility, ease of use, and high quality.

- **Accessibility Consulting** focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and website accessibility solutions.
- **Braille Services** produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology.
- **Captioning Services** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- **Professional E-Text Producers** provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- **Certified Assistive Technology team** provides on-site and remote assessments, demonstrations, training and technical assistance for education, work, and daily living environments.

Tools for Life Mission



We're here to help Georgians with disabilities gain access to and acquisition of assistive technology devices and assistive technology services so they can live, learn, work, and play independently in the communities of their choice.



Tools for Life & TFL Network



- **TFL developed Georgia's Plan for AT**
- We serve individuals of all ages & all disabilities in Georgia
 - Over 50,000 thru various activities throughout the year
- **TFL Network**
 - Assistive Technology Resource Centers/Outreach Sites
 - Lending Libraries
 - Training and Demonstrations
 - AT Reuse
 - AT Funding Education and Resources
- **Online Resources**
 - www.gatfl.org - 5,000 unique visitors a month



AT Acquisition!



- Tools for Life endeavors to break down the barriers which prevent individuals with disabilities, their families, and service providers from acquiring and effectively using Assistive Technologies to gain greater independence.
- To insure that AT products are available to Georgians with disabilities
- Eliminate Funding Barriers



The TFL Network is Growing!



Join us for Webinars and Visit our Archives!



Tools for Life Online Professional Development

- Tools for Life offers online professional development to help you learn more about assistive technology strategies and solutions as well as the most recent information on AT devices and disability related issues and trends.
- Webinar content and materials are developed and presented by one of the Tools for Life team members along with other regional and national leaders in the assistive technology community.
- To join the TFL mailing list to receive our email announcements, visit www.gatfl.gatech.edu



Come Visit Us!



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- MEET THE TFL TEAM
- MEET THE ADVISORY COUNCIL
- DIRECTIONS/MAP
- JOIN OUR MAILING LIST
- SCHEDULE A TOUR**



Welcome to Tools for Life

Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work and play independently and with greater freedom in communities of their choice.

Tools for Life and the TFL Network work collaboratively together to accomplish our mission through:

2014 GATE SEMINAR

DEC 5 Georgia Tech Student Center

WEBINARS

OCT 29 [Lighting the Path: A Guided Discussion on AT for Dementia](#)

NOV 6 [Unlocking Communication in the Severely Impaired Child](#)

- Current Webinar Schedule
- Webinar Archives

TOOLS FOR LIFE APPFINDER



...For Living, Learning, Working, and Playing.

AT ONLINE EXCHANGE



AT FUNDING GUIDE
DOLLARS & SENSE
NAVIGATING THE AT FUNDING STREAM

AT Helps!



- Assistive Technology strategies and solutions can help support those living with disabilities, the aging population and those who have problems with:
 - speaking
 - hearing
 - seeing
 - moving around
 - getting places
 - memory
 - cognition (thought processes and understanding)
 - daily living activities, such as dressing and preparing meals
 - socializing.

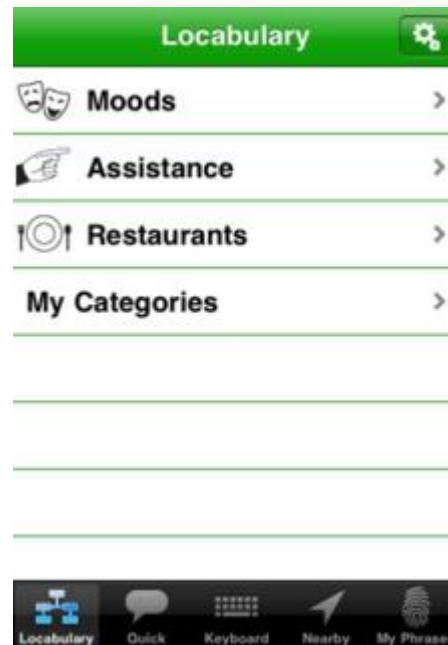


Future

- Level out the playing field
- The Future is Contextual
 - GPS apps
 - Ads on Internet
 - Smart watches
 - Social Media



Locabulary



- Uses GPS to track user location and suggests appropriate vocabulary based on location
 - ie: McDonald's, Starbucks
- A keyboard to type for text-to-speech
- User can tag their own locations and create vocabulary for each location
- Lite version Free
- Pro version \$130



Adaptive Switch Laboratories (ASL)



125 Spur 191, Suite C, Spicewood, TX 78669

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Products / New Products

ASL brings innovative products to our clients! We are here to help each client reach their full potential – our team creates products and designs as a direct result of the needs of those we serve. Our goal has always been independence and equal rights for those we work with....

Driver Control Packages

104 Electronic Head Array



100 Series

Driver Control Packages

ASL 138 Extremity Control Joystick



100 Series

Electronic Switches

ASL 215 Round Proximity Sensor with Mono Port and 24 Volt Connector



200 Series

Electronic Switches

ASL 215 Round Proximity Sensor 2 Din

Specialty Products & Adaptors

ASL 215 Round Proximity Sensor 2 Din

Specialty Products & Adaptors

ASL 215 Round Proximity Sensor 2 Din

[products/product_detail.php?prod=138](#)

Bestic Feeder



- Bestic can best be described as a small, robotic arm with a spoon in the end that can easily be maneuvered.
- Bestic is small and compact, has an attractive, discreet design and is very quiet which makes it blend into the dining environment in a natural way.
- By choosing a suitable control device, the user can independently control the movement of the spoon on the plate and choose what and when to eat.



T. Jacket

- Wearable technology vest
 - Provides customizable deep touch pressure
 - Uses adjustable air pressure compression controlled via smartphone app
 - <http://www.mytjacket.com/>



Amazon Echo



- Speech-controlled speaker system
- Voice recognition - further distances
- Timers, news, information
- Invitation only
- \$199, \$99 Prime members

Know Your Tablets!

Consider Accessibility



iOS 8 is Here: Typing made Easier

iOS 8 Preview



Our smartest
keyboard ever.

iOS 8 makes typing easier by suggesting contextually appropriate words to complete your sentences. It even recognizes to whom you're typing and whether you're in Mail or Messages. Because your tone in an email may be different from your tone in a message.

[Learn more >](#)



Reminders



- Built-in App
- Works with VoiceOver
- Organize your reminders
- Siri
- iPad

Google Now

Google now

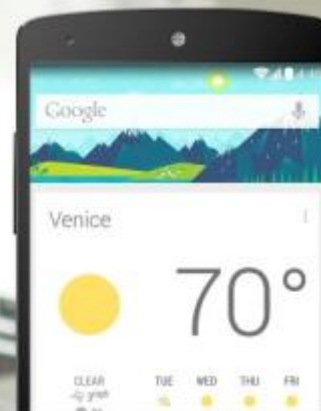
What is it How to get it Cards

Get it now

Introducing Google Now

The right information at just the right time

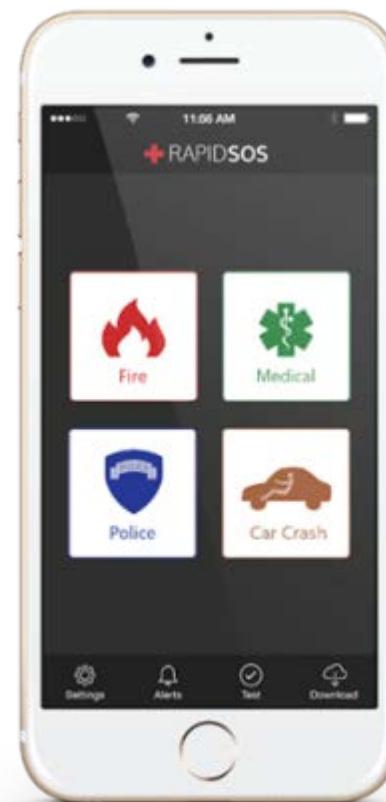
From knowing the weather before you start your day, to planning the best route to avoid traffic, or even checking your favorite team's score while they're playing, Google Now brings you the information you want, when you need it.



Assistance around the clock

Rapid SOS One-Touch-911

- Alert emergency responders even if you can't speak or don't know your location
- Enter your relevant medical information and demographic data
- Uses HTTPS, SMS, or native dialing
 - Connects over any medium-
 - Bluetooth
 - Data
 - Wifi
 - SMS
- Packages your data and routes it to local first responders



www.rapidsos.com

ARIANNA

- Path Recognition for Indoor Assisted Navigation with Augmented Perception
- Flexible and low cost navigation system for visually impaired
- Navigate colored paths painted or stuck on the floor revealing their directions through vibrational feedback
- <http://www.technologyreview.com/view/523401/app-turns-smartphone-into-virtual-cane-for-the-blind/>



TapTapSee

- Designed to help people with low vision identify objects they encounter in their daily lives.
- Double tap the screen to take a photo of anything, at any angle, and hear the app speak the identification back to you.
- Requires VoiceOver to be turned on.



Pixie

- Maps all of the digital things in your life
- Place a pixie chip on any device and map will tell you it's precise location
- <https://www.getpixie.com/>



Talkitt

- Enables people who have motor, speech, and language disorders to easily communicate using their own voice
- Translates unintelligible pronunciation from any language into understandable speech
- <http://www.talkitt.com/>



iBeacon Technology

- Estimote Beacons
 - Wireless sensors that attached to any location or object
 - Broadcasts radio signals to smartphone
 - <https://www.youtube.com/watch?v=lwnmx-5mBLM>



iMovie



iMovie
Filmmaking doesn't get more indie than this.

Mini-masterpieces. Made on location.
Make beautiful HD movies anywhere with iMovie, the fun, feature-rich video editing app that's designed for iPhone 4. Create a video postcard of your day at the beach and publish it to the web without leaving your spot on the sand. Or make a movie of your child's birthday party and send it to your parents while the party is in full swing. You can start several projects on your iPhone 4 and finish them whenever you want and wherever you are.

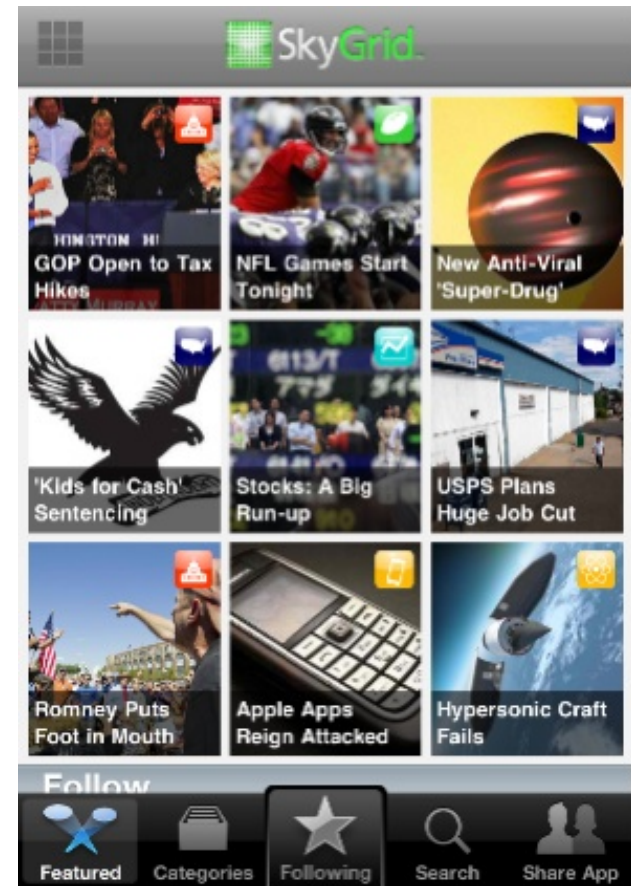
iMovie
Get the iMovie app and start editing movies on your iPhone 4. Coming soon to the App Store for \$4.99.

- Share information via Facebook, Twitter, Email, or SMS
- Upload photos

SkyGrid



- Personalize news events by categories
- Simple interface
- Free
- www.skygrid.com



iZen Garden



- Choose from 100s of objects, plants and creatures to place in your garden
- Rake the sand and share your creations
- Helps you to center your mind, relax your psyche and relieve your stress

Breathe2Relax



- Portable stress management tool
- Detailed information on the effects of stress on the body
- Instructions and practice exercises to learn the stress management skill called diaphragmatic breathing





Telepresence Robots

VGo Telepresence Robot

- Enables a person to be in one location and have the freedom to move around in another location as if they were physically there.
- Reduces travel costs
- School
- Hospital
- Work Remotely



Solutions

- Overview
- Products and Services
- Benefits
- Applications
 - Healthcare
 - Large Enterprise
 - Manufacturing
 - Education
 - SMB

Quick Links

Request Info
Drive a VGo
Latest VGo News
Download VGo App

People with Disabilities in the Work Place

Sector: **Business**



VGo increases productivity and effectiveness while lowering costs by enabling a person to get to a location instantly and easily. VGo is not designed as a replacement for in-person interaction but rather as the next best alternative to "being" in the workplace. VGo also eliminates the deficiencies associated with other video solutions that are locked to a TV or computer monitor by providing 100% remote controlled mobility. [delete that](#)

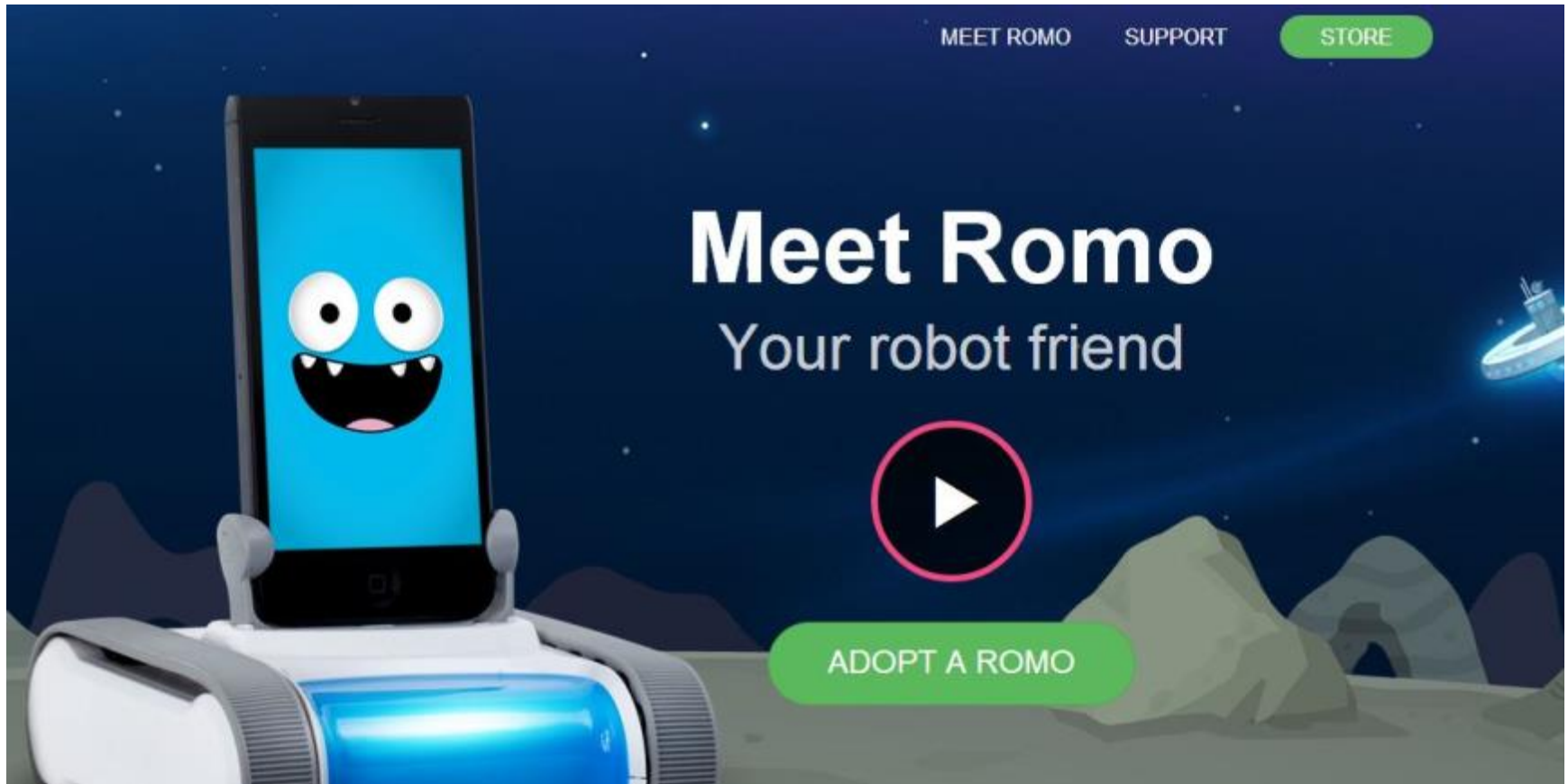
In addition to "being" at work from home, VGo can help people who can get to the workplace, but who cannot practically move about the facility or campus. A VGo can be used to enable a person to move around in one part of the facility while they are physically in another.

The benefits of using VGo in the workplace include

- Getting to places previously inaccessible increases opportunities
- Freedom of movement increases personal interaction with others
- Quality of life improvements by expanding the work and social environments
- Costs can be reduced by lowering or eliminating select transportation expenses, and by communications and speeding decision making



Romo



Lechal Haptic In Soles

- Connects to smartphone via Bluetooth technology
- Foot gestures and voice commands
- Navigation via vibration of the soles, i.e.: left sole turn left
- <http://lechal.com/products.html>



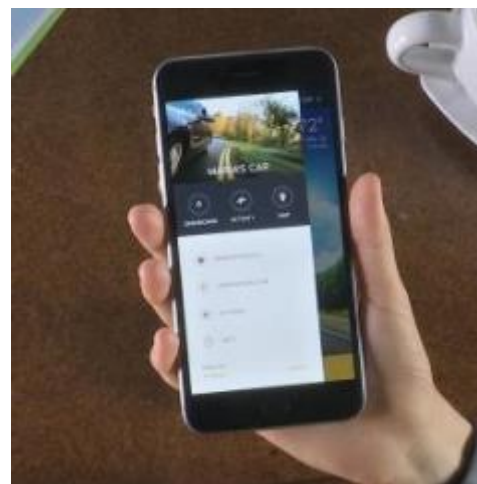
Lumo Lift

- Lumo for back and head/shoulders
- Sends gentle vibration alert when posture needs to be corrected
- <http://www.lumobodytech.com/>



Viper SmartStart

- Remote start your car from the comfort of your home or office
- Remotely unlock and lock your vehicle right from your smartphone
- Locate and track your car, and receive alerts when your vehicle reaches a certain speed or enters or leaves a designated area





Accessible Gaming

TFL Gaming Initiative



- There are many benefits to playing games
 - Improved Hand/Eye coordination
 - Increased problem solving and cognitive function
 - Better handle stressful environments
 - Social outlet
- Tools for Life has recognized the importance of play and is starting an initiative dedicated to gaming with disabilities. Some objectives of the program are:
 - Demonstrate the accessibility of gaming
 - Build relationships with developers and aid in creating more accessible games
 - Increase public awareness of the importance of accessibility in games



The background is a solid blue color. On the left side, there is a decorative pattern of white chevrons (V-shapes) pointing upwards, arranged in a series of overlapping, slightly offset layers.

Environmental Access

Environmental Controls

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VeraLite

Smart Home Controller

[Home / Controllers / VeraLite](#)[Description](#)[Features & Specs](#)[Warranty & Support](#)

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HOME CONTROL DOESN'T HAVE TO BE COMPLICATED OR EXPENSIVE, SO WE CAME UP WITH THE VERALITE SMART CONTROLLER, WHICH IS SIMPLE AND INEXPENSIVE. IT MAY BE SMALL, BUT IT'S CAPABLE OF BIG THINGS!

- Easily manages up to 70 devices
- Plug and play with your Internet connection
- Controls over 750 smart products of all kinds
- Custom text and email alerts for any situation



VeraLite gives you easy control over lights, cameras, thermostats, door locks, alarm systems and more. Plus you easily can add intelligence to almost anything electronic in your home, and VeraLite can control them too. All the smart home benefits you've been looking for are right here in this easy, inexpensive add-on to your home network.



**AN AMAZING AMOUNT OF SMART
TECHNOLOGY THAT FITS IN THE
PALM OF YOUR HAND.**

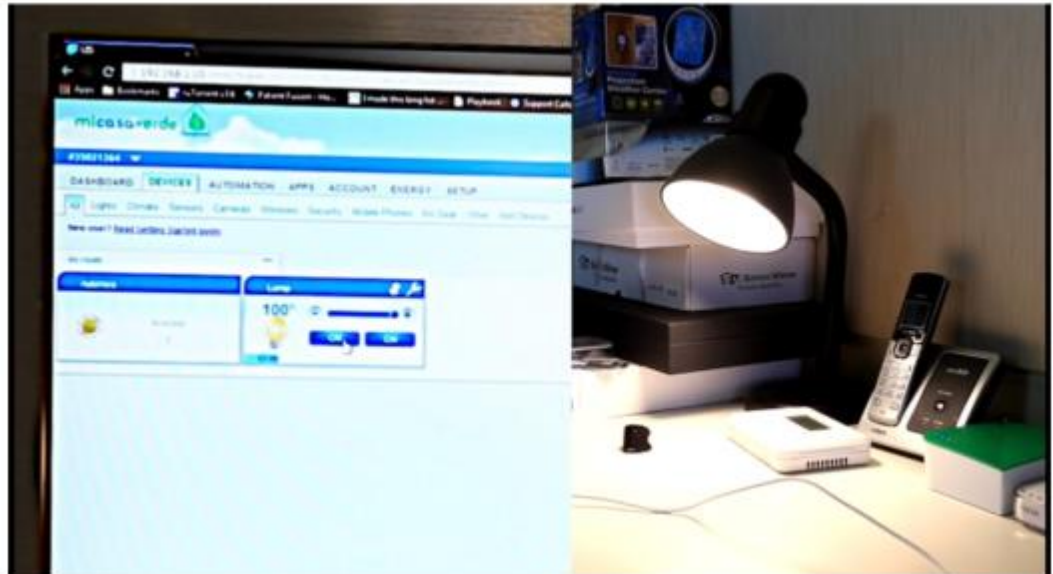
VeraLite gives you easy control over
lights, cameras, thermostats, door locks,
alarm systems and more.

ONLY \$179.95

WHAT'S IN THE BOX



TFL Environmental Control Lab





**Our Question to You:
What have You Learned today?**

The Tools for Life Team



Carolyn Phillips

Director, Tools for Life

Carolyn.Phillips@gatfl.gatech.edu



Liz Persaud

Training and Outreach Coordinator

Liz.Persaud@gatfl.gatech.edu



Danny Housley

AT Funding & Resource Specialist

Danny.Housley@gatfl.gatech.edu



Martha Rust

AT Specialist

Martha.Rust@gatfl.gatech.edu



Ben Jacobs

Accommodations Specialist

Ben.Jacobs@gatfl.gatech.edu



Rachel Wilson

Tech Match Specialist

Rachel.Wilson@gatfl.gatech.edu

Disclaimer

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Georgia's Assistive
Technology Act Program