



KITSAP Robotics & Electronics Enthusiast Group (KREEG)

KREEG Newsletter 12-08

Attendees		
Doyle Maleche	Mike Cambra	Andrew Lee
Charlie Johnson	Emelia Cambra	Joseph Lee
Braxton Brown	Wendy Cambra	Alyssa Lee
Rich Peel	Ian Cambra	
Karl Kirchhofer	Aaron Shaw	

Hello KREEG'rs !

Another great meeting with lots to tell!

We had four new members attend this month's meeting; the Lee family; Andrew and the twins, Joseph and Alyssa (14), along with Aaron Shaw – WELCOME!

Doyle started the meeting with a PowerPoint presentation on "Introduction to the Arduino and Arduino programming". During our "Show & Tell" session we had excellent ideas and projects demonstrated by a few members:

Karl Kirchhofer explained his auto-temperature control project that he and his daughter, **Nel** are working on. Their goal is to control the temperature in Nel's room by monitoring both outside and inside temperatures. When the set limit is reached in the room, the Arduino controller will command two fans, one to exhaust the warm air and the other supply cool outside air. They are pacing the project in small steps in order to fully understand each aspect and to prevent coding errors. That's the best approach to any project. GOOD JOB!

Talk about a family that plays well together! - Each of **the Cambra family** members brought a project to demonstrate and discuss with the group. **Mike** (father), showed the group his initial "Rep-Rap" 3-D printing structure and controller. Mike is also working his project as budget permits, while researching for optimum components for his build. Ian (son) explained his idea in converting a toy tank into an autonomous vehicle. This particular toy did NOT have any drive mechanism and should be challenging to convert; however, **Ian** conveyed his plan to completely modify the chassis to accommodate a drive motor – Way to think out of the box! KREEG's youngest member, **Emelia** Cambra, expressed her ideas in converting an animatronic cat toy into a more robust and responsive "CatBot". She has great ideas and vision as to the CatBot's attributes she would like to control. We will first attempt to make her bot respond to light or motion. Thanks **Wendy** (mom) for making it happen!

NEXT MEETING:

Date: Friday, 28 September 2012

Time: 6:30pm – 8:00pm

Location: Doyle's house 16979 Clear Creek Rd. Poulsbo, 98370. Directly across the street from the Poulsbo Sportsman Club (shooting range)



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Our new member **Aaron Shaw** is well ahead of the game when showing his dual servo control using a Wii Nun-Chuck via the Arduino. His clever carrying case turned out to be an Ice Cream bucket –COOOOL! His YouTube channel is “RobotHacker”. Everyone had lots of questions about his project and Aaron kindly shared his build process and coding examples. Aaron brings programming experience, web development (YEAH!) and lots of laughs. Thanks for the demo Aaron!

Charlie Johnson came through again with the holy-grail of a book. He compiled some really useful data and code into a 3-ring binder (“Black-Book”) for all to view and share information. Thanks to Charlie, we have some great articles on electronics and motivational summaries to post on our web site (coming soon to the World Wide Web nearest you).

For first time attendees, **the Lee family** jumped right in with great ideas and challenges. Andrew (dad) enjoys portrait photography. You have to check out his web site and see the beautiful and professional work;

<http://www.andrewleephography.com/>

His son **Joseph** not only likes to play video games but is interested in designing and programming his own games. Check out www.thegamecreators.com and read about First Person Shooter Creator (FPS Creator) as well as the game programming application. Everything is drag-and-drop, no programming required! We are going to tap into **Alyssa’s** creativity in her character drawing. KREEG is looking for an artist for our web site. She has some great ideas about applying some “bling” to magnets and making costume jewelry. We look forward to her showing it at the next meeting.

Rich Peel is another resource to tap for electronics! He gave a great example and explanation of transistor principles and stressed the requirement in using a diode across the coil to shunt the collapsing EMF field while protecting the transistor and Arduino. Thanks Rich!

I had a great chat with a good friend of mine, **Jaime Forsyth**. She has expressed interest in KREEG becoming a learning force and technology group at the Kitsap Regional Library. I am working to vet our meetings there, which will accommodate easy travel for other members and expose our talents as well as potential memberships. More to follow...

We have established a common date and time for all KREEG meetings. The date is now the LAST FRIDAY of EACH MONTH. Depending on the Kitsap Library’s hours the meeting will be 6:30pm to 8:00pm. We will always default to Doyle’s house in Poulsbo. Until then, next month’s meeting will be at Doyle’s house again, Friday, 28 September. See the foot note for directions. Don’t hesitate to email if you have question.

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In pursuit of funds for our web site, Doyle has the following items for sale:

4 Castle SIDEWINDER V2 - Motor (Brushed and Brushless) controllers Plus extras \$220 (KREEG members only)

- Lot of four (4) Castle 10th Scale SIDEWINDER V2
- Plus Castle Link Programmer with USB Cable
- 3 sets of 4 CC Bullet High Current Connectors (6.5mm) for a total of 24 connectors

The above items are on eBay for \$250 at

<http://www.ebay.com/itm/290737782148?ssPageName=STRK:MESELX:IT& trksid=p3984.m155.12649>

Doyle is willing to sell them to KREEG members for \$220 for all

RoboClaw 2x24 motor controller. Dual brushed motor controller up to 24 amps per channel! \$90

4 NEVER USED - Parallax HB-25 (25 amps each) motor controllers. \$200 for all!

Parallax price is \$55 each plus \$20 shipping.

<http://www.parallax.com/Store/Accessories/MotorServos/tabid/163/CategoryID/57/List/0/SortField/0/Level/a/ProductID/64/Default.aspx>

I'm just starting to consolidate items to sell for this venture. Let me know what you might need.

In closing, please let me know if I need to make corrections for misspelled names and I will fix them.

Until next time...

Best,

Doyle Maleche

Maleche1@comcast.net

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