

GET TO KNOW SEEK

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Software & Electrical Engineering Klub
Campus Clubs at Student Association of DC & UOIT
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WHAT WE DO

- ▶ A technical club managed by students
- ▶ Funded by Student Association at DC & UOIT
- ▶ Gives practical engineering experience
- ▶ Gives free access of parts to prototype electronics
- ▶ Gives free access of real world software projects

YOU TAKE AWAY

Real world engineering experience at SEEK. Take credit for engineering design projects you complete. Develop the skills employers need before Co-Op or Intern-Ships.

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HOW WE WORK

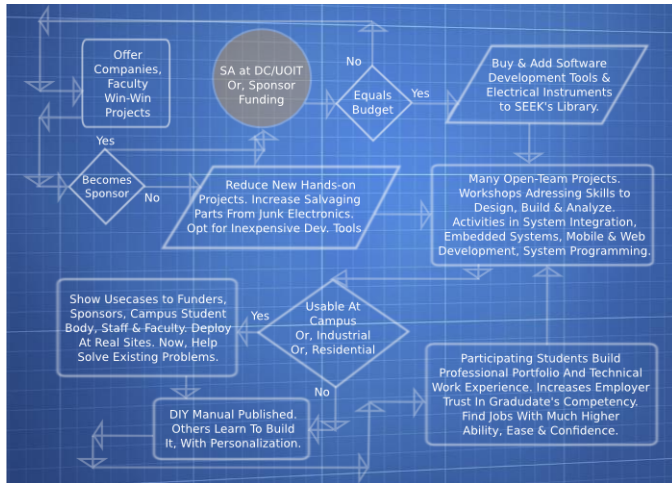


FIGURE 1: Flow chart of how SEEK operate as club

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WHY IMPORTANT

It takes practical skills to build and re-make. Technology, Math and Science courses teach theory and applications on paper. SEEK gives you technical consulting and resources to make your theory knowledge and creative passion into solutions and products. All for free. Period.

- ▶ Learn/use skills to engineer real world products
- ▶ Publish your projects at blogs, academic or industry or campus peer reviewd journals, conferences
- ▶ Use LGPL¹ to license your prototypes, products

¹Lesser GNU Public License. Easy explanation on slide 20.

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WHO ARE CURRENT EXECS

Executives are elected club members who put extra volunteer hours in any of the club positions on slide 16.



a.



e.



b.



f.



c.



g.



d.

FIGURE 2: SEEK's 2014 executive team consisted of (a) Prof. Qusay Mahmoud (b) Michael Lescisin (c) Ahmad Touseef (d) Dhimiter Qendri (e) Shreyasi Panda (f) Paul Azevedo (g) Sagar Desai

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CAMPUS PARTNERS

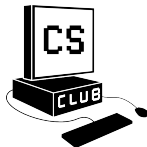
Ensure SEEK can maximize its resources and broaden scope of projects for students.



a.



b.



c.



d.



e.

FIGURE 3: (a) Campus Clubs of SA is primary funder for SEEK (b) McNaughton Center of IEEE Student Chapter shares their electronics prototyping tools & parts that are not duplicated with SEEK's parts library (c) CS-Club has led the example for SEEK of open source and rapid prototyping of software products on campus (d) Dept. of ECSE outreach "NextProject" guides SEEK to realize what technical themes & products are growing relevant to current consumers and industries (e) UOIT Engineering Student Society sponsors and funds competitions for SEEK

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Enable SEEK to have learning access to free or reduced price use of tool sets and technologies.



Student Partner

a.



b.

FIGURE 4: (a) Microsoft sponsors mobile development workshops at SEEK (b) Linux Foundation gives free training course material in Open Source, Embedded and Distributed System Software Projects

ATTEND CLUB EVENTS

- ▶ See real world demos of software & electronic products designed & engineered by student effort
- ▶ No nonsense prototyping skills delivered to you
- ▶ Use for free all club equipment, hardware & tools library to make your ideas functional products
- ▶ Get on-demand help from club execs and interns
- ▶ Meet student experts in operating, embedded, control, telecommunications systems, compilers, artificial intelligence, data mining, software languages and hardware design, computer & physical sciences, micro electronics, signal processing, analog & power systems

REMINDER

Don't miss event, view Calendar at bit.ly/asyeb

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BUILD PARTIES

- ▶ Get free loan out of parts & tools
- ▶ Get free expert help on building hardware & software
- ▶ Build electronics and computers from scratch
- ▶ Develop programs solving real world problems
- ▶ Test and deploy your products to masses
- ▶ Learn important industry practices & standards in EE & SE design engineering through practice
- ▶ Learn by doing (often overlooked) prototyping, repair, problem diagnosis & troubleshooting skills

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APPLICATION TUTORIALS

- ▶ Gives you live demo of student built projects
- ▶ Teaches you how to create electronics you use everyday
- ▶ Get free help in solving your questions and challenges

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DISTANCE LEARNING

- ▶ All tutorials are on line, assigned every week
- ▶ Learn on demand, for free, on your own pace, technical "how to" skills ahead of time
- ▶ Learn prototyping skills used by EE & SE experts

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COMPETITIONS

- ▶ Are implemented by SEEK and sponsored by partners

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WHEN EVENTS HELD

- ▶ Help and tutorials on Thursdays
- ▶ Build "parties" & Maker events on Mondays, Fridays
- ▶ Starts at **11:00am**
- ▶ Flexible when ends; just show up within first hour

DON'T FORGET

Calendar shows all planned events. View it at bit.ly/asyeb

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WHERE ARE WE

- ▶ Share office at room ACE 4030¹ with IEEE McNaghton Center
- ▶ Hold hands-on, maker events at J 127²
- ▶ Competitions happen at GW 210³
- ▶ Parts & prototyping tools library stored at SA Club Lockers in UL 1020⁴

¹Automotive Center of Excellence Bldg. ²J Wing of Simcoe Bldg. ³Gordon Wiley Bldg. ⁴UL Student Portables

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BENEFITS

FOR STUDENTS

- ▶ Get credits on official transcript
- ▶ Get recognition by completing club extracurricular jobs or contributing to club projects

INDUSTRY

- ▶ Get free use cases and demo for your products

Technical student experts use your sponsored tools and equipment to research, experiment and produce documented and videoed tutorials on using your products. Tutorials and guides for your products are produced for you for free.

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You choose a position and campaign for it. SEEK members' vote elects you to take that position. As exec you get real technical and leadership experience.

President	Decides purchase of new hardware via "purchase form". Signs out equipment via "signout form". Gives extra help to beginners.
Vice President	Gets new sponsors to hold competitions and issue projects. Assists other executives to stay up do speed. Prepares supplementary applications.
Chief Auditor General	Ensures equipment in "current inventory" match equipment in SEEK lockers. Prevents loss and theft of items. Acquires fines for late returns.
VP Embedded Systems	Teaches and does demo on making instruments, gadgets, communication and network devices. Suggests new purchases for "future equipment".
VP Server Systems	Maintains mirrors for popular Open Source software package repositories. Teaches about cluster, parallel & distributed computing, mesh networking
VP Electric Machines	Teaches and demo on electric motor, generator and energy devices. Observes trends in market and initiates relevant projects.
VP Mobile Systems	Teaches ad does demo on iOS, Android and Blackberry programming. Observes mobile app trends and initiates relevant development projects.
VP Client Programming	Teaches and does demo web browser client programming. Observes web browser trends and initiates relevant development projects for club.

TABLE 1: SEEK student executive positions and descriptions

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HARDWARE SPONSOR BENEFITS

- ▶ We develop and document use cases for you
- ▶ We create teaching material with demos with your hardware
- ▶ Benefit from lowering the learning gap of users of your products
- ▶ Integrate our tutorials and projects with your hardware on your business website, blogs and show case media to reveal the highest potential of your products
- ▶ Benefit from student technical talent with proven expertise, at no cost

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Every week give an hour of consulting to the club. Inspire highly motivated students to initiate projects that you are unable to. Network with campus, undiscovered maker community, whose work may help you find best research assistants on campus.

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IS LGPL FOR ME?

E-mail michael.lescisin@uoit.net to discuss if LGPL suits your projects. If it is unsuitable, she will help you decide on best license for your inventions, projects and products.

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WHO AND WHEN PRESENTS

Gratitude to people who used these slides to present at events.

Presenter Name	Date Presented	Event or Occasion	Place
Sagar, Paul	Sep. 4th 2014	Get Involved Fair	Dec & UOIT
Michael Lescisin	Mon. 8 th Sep. 8th 2014	Boot Camp	DC & UOIT

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