

Kaan Goksal

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EDUCATION

- Georgia Institute of Technology**, Atlanta, GA Aug 2015 – Present
- Candidate for Bachelor of Science in Computer Science (Expected Graduation May 2019)
 - GPA 3.52/4.0
- Robert College of Istanbul**, Istanbul, Turkey September 2010 – May 2015
- Founded first Makers Club in Turkey – RC Makers
 - Founded Robert College Robotics Club
 - GPA 3.44/4.0

EXPERIENCE

- Aerospace Design Lab, Autonomous Drone Mission, RoboBoat, AUVSI**, Atlanta, GE Sep 2015
ASDL is one of the best aerospace laboratories in U.S. located at Georgia Institute of Technology.
- Designed a quadcopter frame for marine environment.
 - Integrated Linux boards with Pixhawk for encrypted communications, machine vision applications and extended mission functionality.
 - Used IR sensitive cameras to land autonomously on a moving unmanned boat.
- Instructor & Course Creator, Lovett School**, Atlanta, GE Jan 2016
Lovett School is a private, coeducational, college-preparatory day school in Atlanta for grades K-12
- Taught kids how to assemble, configure drones based on Pixhawk.
 - Designed, 3D printed and created course materials which are suitable for middle school kids.
 - Prepared curriculum for the course.
- R&D Specialist, Hornet Robotics**, Istanbul, Turkey March 2015 – Jan 2016
Hornet Robotics, located in Turkey, is an UAV Company that manufactures & develops drones for local government & companies.
- Created custom drones using SolidWorks and manufactured them using carbon fiber and 3D printing.
 - Piloted quadcopter drones, did range, endurance, waypoint navigation, landing precision tests on the field.
 - Analyzed flight logs for vibration, compass failures, telemetry errors, and power efficiency and for crashes.
- Product Design Officer & Co-founder, Connecting**, Istanbul, Turkey April 2014 – July 2015
Connecting is an Internet of Things startup founded by 4 students. The first product is a smart plug for smart grid applications.
- Wire-framed and contributed to concept design of the products.
 - Designed the 3D models of the products and prototyped using 3D Printers and Arduinos
 - Pitched the company at Startup Istanbul, Turkcell Technology Summit and on local TV Channels.
 - Approached by an Angel Investor for 1.6\$M investment.
- Founder & Instructor, Robert College Makers Club** Istanbul, Turkey Sep 2014 – June 2015
- Taught kids how to use SolidWorks, Arduino and 3D printing, and kids created their own RC bots.
 - Introduced Maker Culture to Istanbul and Turkey by giving out speeches on TV, and newspapers.

ACOMPLISHMENTS & AWARDS

- Turkcell Technology Summit - Speaker**, Istanbul, Turkey November 2014
- Gave a speech about Innovation, Makers Culture and pitched Connecting to +5000 executives.
- SAP Innovation Forum 2014 - Speaker**, Istanbul/Turkey October 2014
- Introduced Connecting's IoT smart grid solution to SAP members in Turkey.
- TEDx Sabanci University, Blink of an Eye - Speaker**, Istanbul, Turkey June 2015
- Explained Makers Culture, progress of owning your education, innovation and Connecting.
- Intel IoT Hackathon 2014 – 2nd Place**, Istanbul, Turkey September 2014
- Made an ultrasonic radar that helps navigation of blind people with Intel Galileo.

SKILLS

Concepts: Quadcopter Design, 3D Printing FDM, Arduino & RaspberryPi Robotics, Building drones by integration

Languages: C#.NET, Arduino, Java, python, Lua

Spoken Languages: Turkish (Native), English (Fluent)

Applications: SolidWorks, Adobe Premier, Visual Studio, Adobe Illustrator, Eclipse, Putty, Teamviewer, Mission Planner, QGround Control, Inkscape, IMovie

Operating Systems: Windows, Linux (Debian), OS X (Basic)

Equipment: Oscilloscope, Digital Multimeter, Soldering Iron, FDM Printers, Laser CNC, Water Jet

CIVIC AND CAMPUS INVOLVEMENT

YouTube Channel – Kaan Goksal

September 2014

- Published tutorials about Arduino, SolidWorks and basic robotics projects.
- 703 Subscribers and growing

Sivas Education Community Involvement Project, Sivas, Turkey

August 2013

- Lectured 20 kids, in a village, on how to play the guitar and inspired them to play a musical instrument.
- Staged a little concert with the kids who learned how to play a musical instrument in a week.

Bahcelievler Orphanage Community Involvement Project, Istanbul

September 20012 – May 2013

- Took orphans to sightseeing in the city once a week and helped with their homework and courses.