**HAKAN S. ALPAY**

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**EDUCATION**

**UCLA: Computer Science and Engineering**

Will attend in the fall

**North Hollywood High School, Highly Gifted Magnet**

Graduation date: May 2017

G.P.A. 3.964 (unweighted)

**Biotechnology Summer Student Initiative, Fullerton College June 2015**

Attended a course conducting lab experiments. Practiced techniques involved in creating medicines such as DNA agarose gel electrophoresis, genetic engineering and protein purification.

**WORK EXPERIENCE**

**Southern California Academy of Sciences Research Training Program May 2016**

Conducted research to determine the differences in aerodynamics between large scale and small-scale wind turbines. Monitored by mentor from UCLA Geography Department. Prepared scientific paper and presentation for professional science conference.

**Intern, TY Engineering and Design June 2014**

Completed revised floorplans to meet dimensions of house and follow layer conventions.

**VOLUNTEER EXPERIENCE**

**ONEgeneration Adult Daycare and Childcare (Non Profit) Summer 2015**

Supervised children and helping teachers in child care, and serving meals and conducting activities in adult care.

**Adrin Nazarian for State Assembly October 2014**

Operated phone bank and participated in Get Out The Vote door-to-door canvassing.

**ACCOMPLISHMENTS**

* Second Place, Robot Arm Event, Polytechnic Science Olympiad Invitational Tournament 2017
* First Place, Wind Power Event, Polytechnic Science Olympiad Invitational Tournament 2017
* Second Place, Robotic Arm Event, Southern California State Science Olympiad Tournament 2016
* Second Place, GeoLogic Mapping Event, Los Angeles Science Olympiad Regional Tournament 2016
* Third Place, Wind Power Event, Los Angeles Science Olympiad Regional Tournament 2016
* Third Place, Robotic Arm Event, Los Angeles Science Olympiad Regional Tournament 2016
* Third Place, Wind Power Event, Troy Science Olympiad Invitational Tournament 2016
* First Place, Robotic Arm Event, Polytechnic Science Olympiad Invitational Tournament 2016
* Third Place, Wind Power Event, Polytechnic Science Olympiad Invitational Tournament 2016
* Third Place Winner, Applied Engineering, Los Angeles County Science Fair, March 2013
* Fourth Place Winner, Product Science (Physical), California State Science Fair, April 2013
* SAT Scores: Reading 750, Math 800, Writing 740, November 2015

**MEMBERSHIPS**

* Assistant Editor-in-Chief, The Magnitude, NHHS HGM Newsletter, September 2013 – Present
* Online Manager, Outspoken Club, NHHS HGM, August 2015 - Present
* Team Member, Science Olympiad, NHHS HGM, September 2014 – Present
* Member, Math Club, NHHS HGM, September 2013 – Present
* Secretary, American Red Cross Club, NHHS HGM, January– June 2015
* Member, Bridge Club, NHHS HGM, January – June 2015
* Member of Mu Alpha Theta (Honor Society), September 2015 – Present

**SKILLS**

* **Computer Programming:** C# and JavaScript3DS Max, Blender, Maya, Arduino, Autodesk 3DS Max
* **Game Design:** Unity Game Engine, MonoDevelop IDE, Eclipse IDE, Visual Studio IDE, Atom, Node.js
* **Drafting**: AutoCAD, Rhino
* **Microsoft Office:** Word, Excel, Publisher, PowerPoints, OneNote
* **Team Composition:** Leadership, Understanding, Teaching
* **Programming Languages:** C#, JavaScript, Java, SQL, C++
* **Design Humanities:** (Computational) Linguistics, Illustration, Graphic Design (GIMP, Inkscape, Photoshop, Illustrator), Web Design, Cinematography (Premiere Pro), Motion Design (Aftereffects)

**LANGUAGES**

* **English** (Full proficiency)
* **Turkish** (Elementary proficiency, Native language)
* **Spanish (Hispanic American)** (Limited working proficiency)
* **Japanese** (Elementary proficiency)

**PROJECTS**

**“Bokeh Bot” Twitterbot December 2016**

A bot that randomly generates an image containing bokeh (colored circles that appear in around light sources in out-of-focus areas of a photograph) and posts it to Twitter along with a randomly generated name.

Node.js, Heroku, and Processing were used for this project.

**Science Olympiad Wind Power Turbine August 2016 - Present**

Constructed a blade assembly within the guidelines of the Science Olympiad event “Wind Power.” The blade assembly is optimized to produce maximum power with minimal weight and moment of inertia. A 3D printer and CAD software such as AutoCAD and Rhino were used to print the blades for this project, but constructed the assemblies and generator from CDs, PVC piping, a motor, and wire.

**“Akrobat” Video Game November 2016**

Created a first person wave defense shooter in one month for the 2016 National STEM Video Game Challenge. The player employs a variety of weapons to survive as long as possible in a closed arena as progressively difficult enemies are spawned at the extents. The game employed a colorful, bright aesthetic with a number of movement options including wall-running to create a punchy experience. The Unity Game Engine, and Microsoft Visual Studio were used for this project.

**“The Magnitude” Student-Run Literary Magazine Website March 2016 - Present**

Designed a website for the Highly Gifted Magnet’s literary magazine “The Magnitude” as Online Editor (promoted from Nonfiction editor). Showcases submissions from each publication since the website’s inception in a lucid and comfortable format. themagnitude.weebly.com

**“Kimeiga” Portfolio Website May 2015 – Present**

Designed a portfolio website that showcases many video games, videos, languages, logos, brandings, AI bots, and other projects that I have created throughout my design career. The website aims to combine interesting works with bright colors and clean design to create a wholesome view of myself and what I can create. kimei.ga