FINAL DRAFT

curriculum vitae Pyokyeong Son

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Educational Background Secondary Education

O-SUNG 7th – 9th grade; Daegu, Korea;

MIDDLE SCHOOL Public Middle School Education

SAINT MAUR 1st – 4th, 10th – 12th grade; Yokohama, Japan;

INTERNATIONAL SCHOOL IGCSE; International Baccalaureate Diploma Programme

Extracurricular Activities School-based

HS STUDENT COUNCIL, Elected High School Student Council President in Junior Year.

PRESIDENT Proposed and led participation in various activities including Shine

On Kids, Monetary donations for books, International Anti-bulling Day (Pink Shirt Day), etc. Organized various school events including

Socials and assemblies.

HS ROBOTICS CLUB, Participated in robotics club since second grade. In MS, used

VICE PRESIDENT Arduino kits in making a concept "smart home," awarded first place

in the National Youth Science Club fair, and a special award in ISEF-Korea. In HS, led the VEX robotics team, coming in at 2nd place (at the international ASIJ competition) last year, and awarded a judge's

award.

JV BASKETBALL, Participated in the KPASS basketball tournament in 2016 and 2017.

TEAM CAPTAIN Appointed team captain in Junior Year by teammates, awarded

Most Improved Player both years.

JAPANESE ANIMATION Participated in Japanese discussions and produced written analysis

STUDIES CLUB of contemporary Japanese anime series.

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Extracurricular Activities Extra-scholastic

WOLFRAM SUMMER CAMP Participated in a 2-week intensive project-based computer science

program at Wolfram Research. Completed a project using Mathematica to investigate the derivation of theorems using axioms, and formulating unconventional axiom systems. The project was labeled a Staff Pick and gathered fair attention from the

Wolfram Community. Computational essay found here.

Homani Community. Compatational Casaly Ioana <u>inste</u>.

PROGRAM Participated in a 3-day science immersion camp in collaboration with the Yokohama Science Frontier High School with a

with the Yokohama Science Frontier High School, with a investigative research project in collaboration with Japanese

students. Detailed reflection found here.

Volunteer Experiences

STUDENT VOLUNTEER

TOKYO NATIONAL MUSEUM OF Monthly participation in communication with visitors; event

SCIENCE & INNOVATION preparation; research presentation support.

HABITAT FOR HUMANITY, Participation in Habitat for Humanity fundraising events and

awareness campaigns; Trip to Siem Reap with support from Habitat

for Humanity Cambodia, as volunteer worker.

AFTER-SCHOOL MATHEMATICS Volunteered to help in Mathematics Academic support session

ACADEMIC SUPPORT TUTOR after-school, weekly.

Awards & Distinctions * KPASS: Kanto Pain Association of Secondary Schools

Organization of international schools in the Kanto Area of Japan

2015 Youth Science Club (YSC) Competition

Grand Prize, award by the Ministry of Science, ICT, and Future

Planning

Intel Int'l Science and Engineering Fair Korea (ISEF-K)

Special Award from Korean Aerospace Research Institute

Daegu Educational Institute for the Gifted in Science

2016 VEX Robotics Competition ASIJ

Judge's Award (Finals)

KPASS Speech Contest

Extemporaneous Speaking - Silver Award

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Awards & Distinctions Continued

2017 KPASS History Bee and Bowl

Team First Place

KPASS Math Field Day

Senior Tech Challenge, Winner

KPASS Brain Bowl

First Place (Team), All Stars Award (Individual)

VEX Robotics Tournament ASIJ

Quarter-Finalist

2018 KPASS Speech Contest

Extemporaneous Speaking - Bronze Award

KPASS Math Field Day

Math Skills Test, Junior, First Place

Personal Projects

COMPUTATIONAL Exploration of Fundamental Mathematics, via Implementation of

MATHEMATICS Common Axiom Systems and Proof Generation

(Wolfram Summer Camp)

JOURNALISM Manually developing and maintaining a personal website and blog,

writing about computer science or just casual thoughts.

CRYPTOGRAPHY The Mathematics of Deciphering the Enigma machine

MACHINE LEARNING Investigation of Common Optimization Algorithms for Machine

Learning Applications

Knowledge & Skills

COMPUTER SCIENCE Linux System Administration; C; Python (Numpy, Flask); PHP; Java

(Swing); iOS (Swift); HTML & CSS; Mathematica (Wolfram Language)

CERTIFICATIONS *iBT TOEFL* :119, *IELTS*: 8.5, *JLPT N-1*: Pass (175/180),

AP: 5 in Comp. Sci., Microecon., English Lang., and Calculus AB