

WALEED MANSOOR

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Software programmer working in self driving vehicle technology. Projects undertaken in Python, C++, C, Java and PHP. Prefers coding over sleeping and outcasts over boring people.

EXPERIENCE

SAMSUNG ELECTRONICS

Jan 2017- Present

Senior Engineer

- Self driving car engineer working for Samsung Research
- Creating Robot Operating System(ROS) based autonomous wheeled robots
- Lidar/Depth Camera based SLAM, EKF and PF localization, A* Path Planning
- State Machine based path planning, Sensor fusion for object tracking, PID/MPC control
- Deep learning (CNN) based steering, road sign detection, semantic segmentation
- Platforms used: Ubuntu/ROS Indigo/Kinect on Nvidia TX2 (ARM) and Intel NUC
- *Tags: ROS, Gazebo, SLAM, Keras, Tensorflow, Python, C++*

SAMSUNG ELECTRONICS

Feb 2010-July 2017

Engineer

- Static analysis expert for Samsung Mobile Division
- Works on managing and utilizing static analysis tools (Coverity Prevent and FindBugs)
- Identifying and writing new static analysis checkers using Coverity Extend SDK and Findbugs detector API
- Automating large scale Prevent deployment and management tasks using Python (Django) and PHP based web application utilizing Coverity Web Services
- Deploy and manage Linux server cluster and services: Apache/Jenkins/git etc
- Train and manage 4-5 people team in Korea and Vietnam
- *Tags: Coverity Static Analysis, Java, C++, PHP, Linux, Server management*
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WISENUT

Jan 2009 – Jan 2010

Researcher

- Worked on C++ based document classification tool
- Optimizing classification algorithms
- Increasing the speed and reducing memory foot print of the tool

- Managing/collaborating with a team in Shanghai
- *Tags: C++, Classification algorithms*

REVISION

Jun 2007 – Dec 2008

Consultant

- Data mining consultant in business intelligence field
- SPSS Clementine, SAS and Microsoft SQL Analytics Services.
- Responsible for data preparation and modeling.
- *Tags: Statistics, Databases, Data minings*

AYESOFT (subsidiary Nero Inc. Germany)

April 2004 – August 2005

Software Engineer

- Worked for team that developed Nero BackItUp
- Porting C++ based backup tool from Windows to Linux
- Writing console based front end using curses library
- Full ownership for the Linux based version of BackItUp.
- *Tags: C++, Linux*

LANGUAGE SKILLS

- **English:** Near native, IELTS 8.5/9 , OPIC Advanced Low
- **Korean:** Full proficiency, TOPIK Level 6

EDUCATION

Self Driving Car Engineer Nanodegree Udacity	Dec 2016 - Jan 2018
Masters in Computer and Electronics Engineering CGPA: 4.125/4.50 Ajou University, Suwon, South Korea.	Sep 2005 - Jun 2007
Bachelors in Computer Software Engineering CGPA: 3.60/4.0 College of Signals,National University of Sciences and Technology, Pakistan	Jan 2000 - Apr 2004

REFERENCES

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