| **Younlea Kim**  102dong, 1003gho, 133, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea  ● Tel: +82-10-9914-3188 ● E-mail: younlea.kim@gmail.com |
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**Accomplished and Diversely Qualified Electrical And Software Engineer**

17 years of intense Samsung Smartphones HW and SW development experience. Demonstrated competence in complete product development lifecycle, from initial conception through design, verification, fabrication, and testing. Comprehensively familiar with analog & digital circuit designs, mass production, kinematics designs, board SW bring-ups, windows programming, Linux kernel programming, troubleshooting, and reliable testing. Ability to utilize strong engineering and IT skills in the development of innovative and successful designs for next-generation telecommunication solutions.

**Core Competencies**

* Ability to work and interact meaningfully with people from varied socio-cultural backgrounds.
* Solid understanding and advanced proficiency within System Bring-Up Tools, using Trace32 for board debugging, and software porting device drivers.
* Understand and experience about whole product development process.
* Highly inventive and client oriented, committed to foster continuous process and performance improvements—possess demonstrated accuracy and attention to detail.
* Work equally well independently to meet organizational goals, and collaboratively as part of a team.
* Work well under pressure and react to stressful situations in effective, proactive, and innovative ways.

**Professional Experience**

| **Principal Software Engineer**  *Samsung Robot Division TF (Oct 2021 - Present)*  *• Develop safety, security, and motor control platform.*  *Samsung Electronics Corporation - Mobile Division* | **March 2021-Present**  *Seoul Korea* |
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* FreeRTOS BSP and debugging system design for samsung galaxy buds and APS products (2020~Sep 2021)

| **Staff Software Engineer**  *Samsung Electronics Corporation - Mobile Division* | **March 2011-February 2020t**  *Seoul Korea* |
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* FreeRTOS BSP and debugging system design for samsung galaxy fit(2018~2020)
* Develop Secure zone for Tizen watch project(2018) – Developing RKP(Real-time Kernel Protection)
* **Project leader about Thermal imaging camera for firefighter in C-LAB. (2017)**
* **Donated 1,000 units to Korean firefighters.**
* **Technical leader for Samsung Drone project. (2015~2016)**
* Technical leader for gear watch face. (2014)
* Technical leader for Tizen Samsung logging system(big data) (2014)
* Technical leader for Tizen SideSync project.
* BSP for UMTS model for switching from RTOS to Linux system.

| **Senior Software Engineer**  *Samsung Electronics Corporation - Mobile Division* | **March 2007-February 2011**  *Seoul Korea* |
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* BSP for Symbian model.
* BSP for Windows model.
* Developed Touch device driver for first Samsung touch phone.
* Developed USB driver for Samsung mobile phone.
* Developed Binary downloader.

| **Software Engineer**  *Samsung Electronics Corporation - Mobile Division* | **February 2005-February 2006**  *Seoul Korea* |
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* BSP engineer about UMTS models.
* Made Windows binary downloader program for Samsung mobile phone.

**Mentoring & Teaching Experiences**

* Mentoring Softwaare Maestro [202003~]
* Teaching drone development to fire fighter [201803~ 202011]
* **Samsung Tomorrow solution mentor [2016, 2017, 2018] - 3 times grand prize**
* Teaching drone to Bundang high school [2017]
* Teaching drone build system to Uzbekistan Tashkent University [20150904~20150913].
* Teaching science to elementary students[2013~2016]
* Teaching Arduino and software to Suwon Mathane high school[2015]
* Writing Arduino books that is using Samsung juniors software Academy.(2014)
* **Mentoring on Hanium and IT probono (http://hanium.or.kr) since 2013.**

**Academic Qualifications**

| * **Master of Robotics**   *Hanyang University* | **2003-2005**  *Seoul, Korea* |
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* *Relevant Courses: Robust Control Theory, Probability Progress Theory, System Modeling and Interpretation, Parallel type robot theory, System identification theory, Intelligent system,Linear System Theory*
* *Articles: Algorithm for Control of Parallel Mobile Robots system*

| * **Bachelor of Electronic Computer Engineering**   Hanyang *University* | **1996-2002**  *Ansan, Korea* |
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* *Relevant Courses: Electromagnetism Studies, Electric Circuit Design, Engineering Statics, Dynamics, Instrumentation Engineering, Automatic Control, Operating System, Embedded System, Artificial Intelligence, Database, Digital Design, Communication Theory, Robotics*

**blog and book**

* http://sulac.egloos.com (blog)
* 시작하는 드로너를 위한 아두이노 드론 마스터 북 (book)

[Arduino drone master book for starting drone geeks]

**video clip about my project**

* <https://youtu.be/qXmlMbUq-Pc> [2020 CNN Business clip]
* [**https://youtu.be/DO3Cs-QHwMA [2018**](https://youtu.be/DO3Cs-QHwMA%20%5b2018) **Samsung Tomorrow Solution grand prize]**
* [**https://youtu.be/PiM4MGmw2zo**](https://youtu.be/PiM4MGmw2zo) **[2017 Thermal imaging camera for firefighter]**
* [**https://youtu.be/gpwkQD-H8kM**](https://youtu.be/gpwkQD-H8kM)
* <https://youtu.be/rXdblUqNZUY>
* [**https://www.youtube.com/watch?v=QEQXxTo1OkQ**](https://www.youtube.com/watch?v=QEQXxTo1OkQ) **[Uzbekistan TUIT university drone]**
* [**https://www.youtube.com/watch?v=JbdfbkxD9zU**](https://www.youtube.com/watch?v=JbdfbkxD9zU) **[Drone test]**
* [**https://www.youtube.com/watch?v=oE9-ULhiBNo**](https://www.youtube.com/watch?v=oE9-ULhiBNo) **[RC control using EEG sensor]**

**References Available Upon Request**