

### JOS Innovation Awards(HK)2017-18 Awardee List

Champion	<p><b>Project:</b> Finger Exercise Device for Early Stage of Osteoarthritis Patients</p> <p><b>Team Member:</b></p> <p>CHEUNG Ching Yee , CHAN Hiu Lam , FONG Tsz Ching and LIM JooMi</p> <p>(Year 3 students of Biomedical Engineering of Hong Kong Polytechnic University)</p> <p><b>Project Highlight:</b></p> <p>Ageing population in Hong Kong is getting more serious and Osteoarthritis (OA) is one of the most common diseases for elderly. To be specific, hand OA patients are common and continuously increasing. To manage OA, exercise has been the central component to prevent and relieve symptoms.</p> <p>Existing hand exercise equipment, however, are not designed specifically for OA patients. The purpose of this research is to enhance the current hand exercise equipment and remodel it to be suitable for early OA patients.</p>
1 <sup>st</sup> runner-up	<p><b>Project:</b> Algotritonist</p> <p><b>Team Member:</b></p> <p>LEUNG Ka Ming, Jeremy                  Year 2 student of Information Management of City University of Hong Kong</p> <p>HO Yik Chung, Grayson                  Year 2 student of Information Systems and Computer Science of University of Hong Kong</p> <p>LEE Wing Yu, Michelle                  Year 3 student of Computer Engineering of Hong Kong University of Science and Technology</p>

	<p>NG Chak Lam, Rica Year 3 student of Information Engineering of City University of Hong Kong</p> <p>TSE Ho Yin, Thomas Year 3 student of Marketing of City University of Hong Kong</p> <p><b>Project Highlight:</b> The solution aims to tackle these two major issues, which is to alleviate the strains that caregivers are having and to allow elderlies to get the right nutrients. The system improves the situation and meal management efficiency by utilising algorithms to suggest possible meals combinations to caregivers and offer them to elderlies. The system can also keep track of elderlies' consumption of different food elements. Data will be provided to doctors to provide more precise treatment and feedback to both elderlies and their families.</p>
2 <sup>nd</sup> runner-up	<p><b>Project:</b> Sleeping Monitor</p> <p><b>Team Member:</b></p> <p>LAU Hoi Sing, FAN Po Chuen, CHAN Hoi Yat and TSANG Long Fung</p> <p>Year 2 students of Higher Diploma in Mobile Application Development of Hong Kong Institute of Vocational Education - Sha Tin</p> <p><b>Project Highlight:</b> According to a survey on sleep quality in Hong Kong, 20% of respondents were troubled by insomnia problems. With the total population of Hong Kong, there were 1.4 million people with insomnia. The negative impact of sleep problem on elderly is even greater and the consequences are equally serious. The team designs a mobile application to monitor quality of sleep of the target population, and according to user changes in brain waves change music at any time, thereby helps to improve quality of sleep and reduce the risk of health problems arising from sleep problems.</p>
Most Popular Innovation Award	<p><b>Project:</b> Super Senior</p> <p><b>Team Member:</b></p> <p>LIU Chi Wing and KWONG Sin Man</p>

Year 3 students of Global Business Systems Management of City University of Hong Kong

LEE Ching Long

Year 3 student of English and Education of Hong Kong Baptist University

**Project Highlight:**

The solution aims to tackle the below:

1. Lack of health tracking among elderly people.
2. Systematically organize and integrate emergency, e-health portfolio and health data analysis (including nutrients level and basic health standard).
3. Connect elderly with relatives through active monitoring & health food ordering.
4. Maintain mental health of elderly by creating a community which shares similar interest.