

# Military Grade Radial Nerve Palsy Wrist Splint Splinter Cell

Sponsor: Quality of Life Plus



SAN DIEGO STATE  
UNIVERSITY

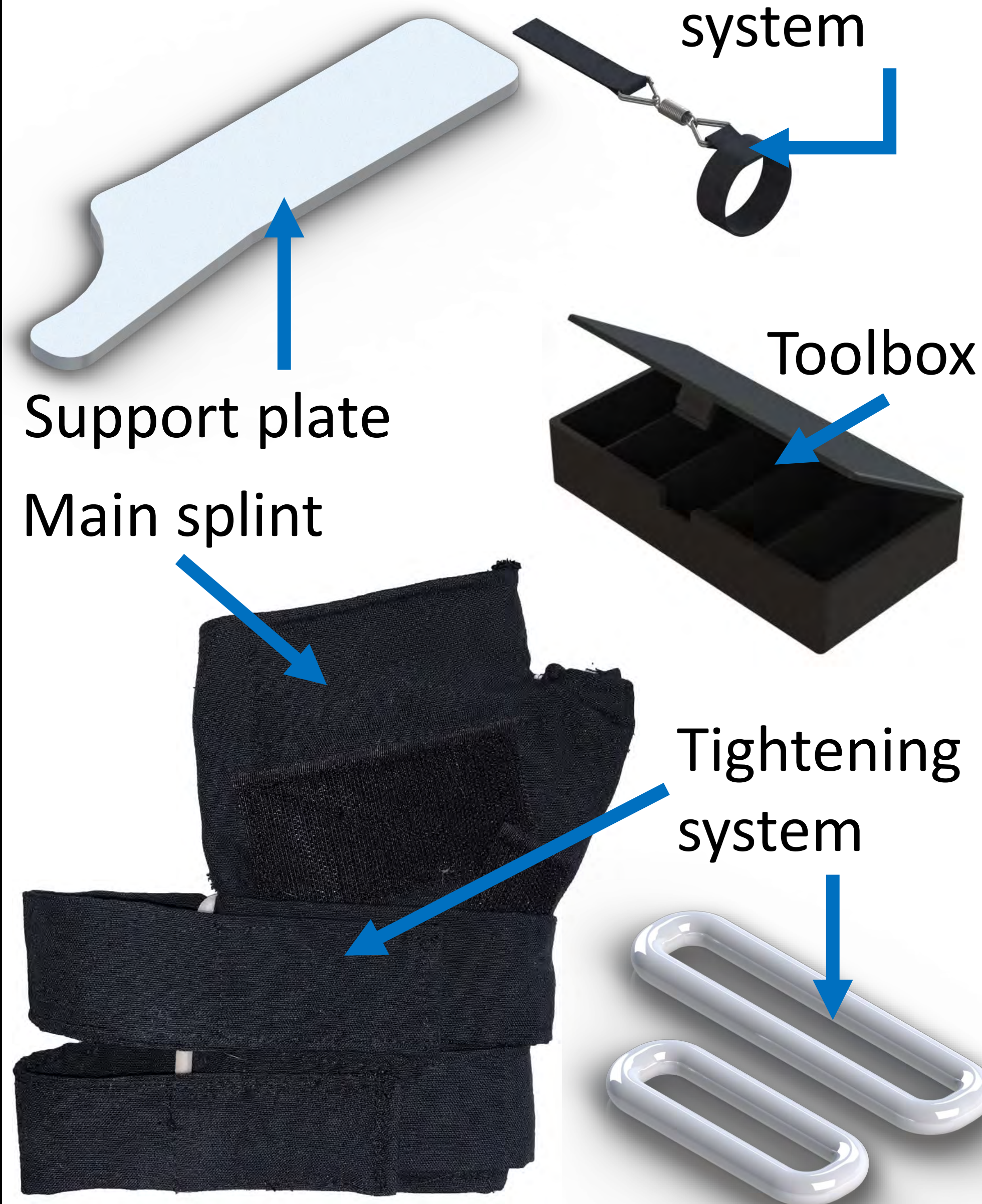
## Project Overview

Quality of Life Plus (QL+) aims to generate engineering innovations that aid and improve the quality of life for those who have served our country.

The Surface Warfare Officer (SWO) assigned to the team injured himself in a snowboarding accident during which broke his left humerus that damaged the radial nerve. This injury prevents normal hand movement and required the officer to be put on leave.

Splinter Cell, a team of Mechanical Engineering students at San Diego State University, took on QL+'s challenge to design and fabricate a military grade radial nerve palsy splint that will be used for a SWO to remain on active duty. The splint shall assist with finger extension, provide wrist support, and be reliable in SWO working conditions.

## Main Components



## Final Product



## The Engineering Team



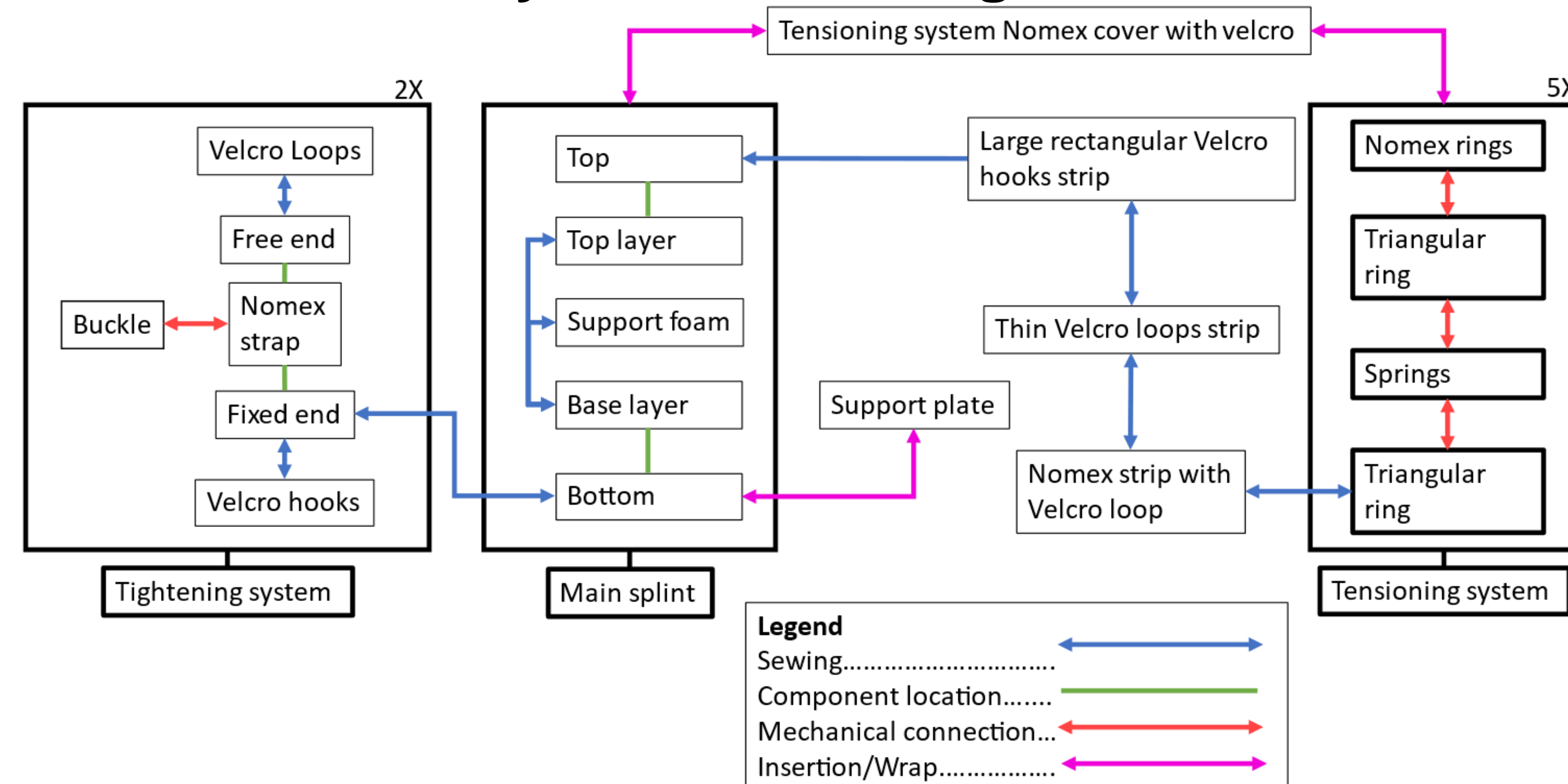
### Team Members (Left to Right)

Connor Chaney  
Paulina Nguyen  
Bryan Tan  
Sophia Nguyen  
Tri Nguyen

### Position

Manufacturing Engineer  
Manufacturing Engineer  
Design Engineer  
Design Engineer  
Team Leader

## System Level Diagram



## Acknowledgement

We would like to acknowledge Dr. Scott Shaffar and Quality of Life + for providing with guidance and support.

Furthermore, we appreciate Annemarie Orr, an occupational therapist from QL+, and Lieutenant David Bazan for providing the team with valuable feedback and additional guidance.