Project description

Company:  **Cenvigo AB  www.cenvigo.com**

Contact person:  **Per Matsson**  
Phone:  +46705201570  
E-mail:  [Per.matsson@cenvigo.com](mailto:Per.matsson@cenvigo.com)

**Cenvigo AB focus on e-Health and ”digital” wellness** presently focusing on connecting various sensors to telemedicine networks. Sensor information is combined with personal background and/or patient history information into predictive algorithms. This includes the utilization of deep learning and artificial intelligence methodology.

**Short background and description of problem?**
- Every year, sick leave in Sweden costs SEK 20 billion for the welfare. One of the biggest costs is related to psychosocial diseases including burnout and sleep disorders.
- Research shows that sleep quality and sleep disorders are directly associated with burnout and that an individual's self-estimation of how well you sleep is very poor.
- Using digital methods, one can create measurement and follow-up methods as well as techniques to help an individual sleep better, thereby reducing the length of sick leave or preventing individuals from getting fatigue problems. The conditions include access to an internet-connected sensor that can measure ”sleep quality” with good validity and precision.
- There are established methods for improved sleep. For example. Sleep hygiene, stimulus control and sleep restraint.
- Motivation and patience are crucial for successful treatment.  
  [https://www.scientificamerican.com/article/the-secret-to-a-better-nights-sleep-a-sense-of-purpose/](https://www.scientificamerican.com/article/the-secret-to-a-better-nights-sleep-a-sense-of-purpose/)  

**Short description of project goals:**  
The project goals are to:
- Develop software solutions to support the analysis of sleep in conjunction with various disease stages through the use of sensors connected to a telemedicine backend.
- Develop analysis algorithms for the purpose to assess disease severity based on sensor data

**Qualifications and interests:**  
- Genuine interest in Software development e.g. java, IoT connectivity, smart phone app development
- An interest in telemedicine and e-health solutions