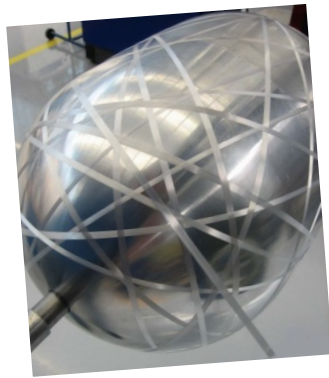


GRADUATION PROJECT

## DESIGN OF THE NEXT GENERATION FILAMENT WINDING MACHINE

August 2011

Protension Composites is a young engineering and manufacturing company located in Delft. We are specialists in the field of composite preforming technologies, which are based on the principles of filament winding. At Protension you will find the opportunity to be part of a young team of engineers and a dynamic work environment in which we together develop the next generation of composite manufacturing technologies.



In this graduation project, you have the opportunity to design a future preforming process from scratch. You might even suggest what product or shape to design the process for. So if you feel that the manufacturing of a certain aerospace, automotive or high end sport product would need automation (and a lot of them actually do), share your ideas with us and we will support you in making it happen.

You will design the machine and program an environment to simulate and assess the necessary machine motions. Then, we can use our ABB industrial robot facility to actually test your process design and produce the first prototypes.

If you feel you have the creativity and determination to take on a multi-disciplinary project like this, please send your résumé to [info@protension.eu](mailto:info@protension.eu) or give us a call at **015-8200204**.

Jack Wetzels  
Protension Composites