

Cumulino THE TEAM

THE PEOPLE



MOTIVATION

We are convinced that Cumulino:

- Is a solution for a real-world problem
- Helps to improve health and appearance of infants
- Addresses parental instincts and helps parents to take care of their children
- Creates and satisfies a need and therefor will be successful

PROFESSIONS

Lukas Boxberger
Reserach Assistant

Industrial and Product Designer

- UI/ UX Design
- Design Thinking
- CAD Design Development
- Product Acceptance
- Additive Manufacturing

André Bucht
Head of Department Adaptronics

Automation and Adaptronic Engineer

- Control Technology
- Project Acquisition

Christoph Eppler
Reserach Assistant

Automotive Engineer

- Actuator Design
- CAD Construction Development
- Machining
- Prototype Construction

ROLES

- Design Development

- Project Management

- Technical Development

Cumulino THE MARKET



SKULLS WITH DEFORMATIONS

NORMAL SKULL

PROBLEM TO SOLVE

To avoid sudden infant death syndrome, it is recommended to let infants sleep in supine position. But this causes a higher risk of skull deformations, coming with not only aesthetic problem, but also with orthodontic problems, eye changes and delays in cognitive development. We want an alternative to the helmet therapy.

POTENTIAL CUSTOMERS

Parents with Newborns, Private Practices, Hospitals, Health Care Supply Store

MARKET ANALYSIS

- In Germany nearly 750.000 childbirths p.a.
- Customer survey: 95 participants (mainly parents with newborns)
- The product seems to be useful and positive: over 80% yes
- I need this product: 4% absolutely, 37% maybe, 28% don't know

BUSINESS MODEL

- Sell or rent Cumulino pillows to end customers, doctors, hospitals or resellers
- Upgraded functionalities: communication via smartphone as babyphone, sleep monitoring, etc.

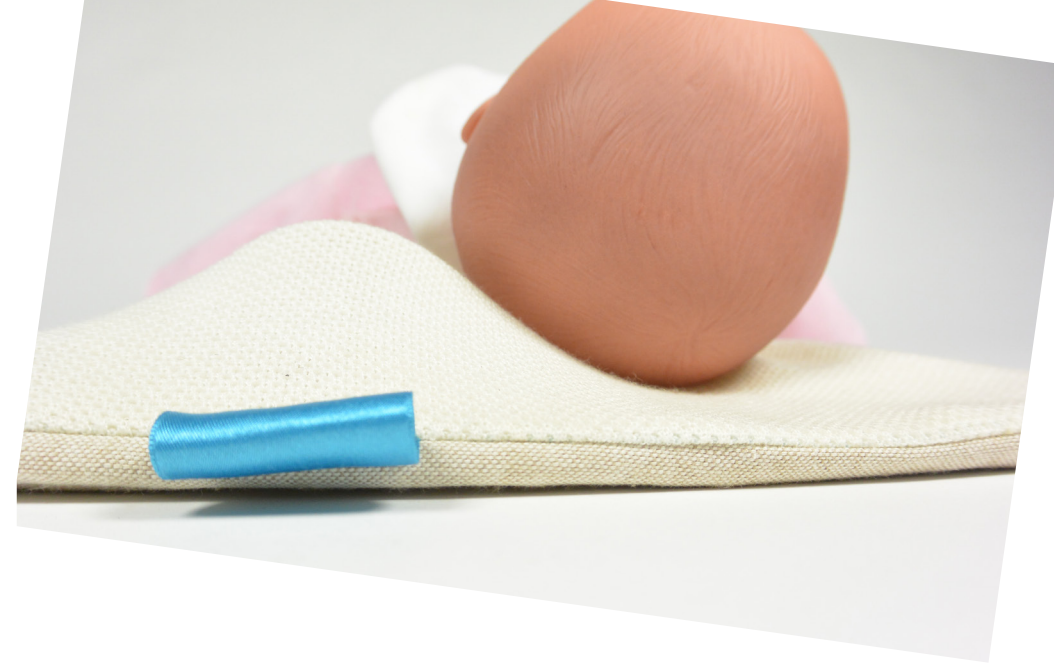
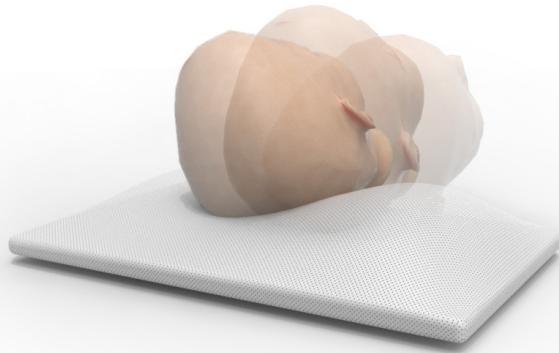
FURTHER FIELDS OF APPLICATION

- Baby bottles with integrated scald prevention
- Anti-snoring pillows
- Massaging textiles
- Anti-bedsores products

NO MORE HELMET THERAPY



Cumulino TECHNOLOGY



THE TECHNOLOGY

We are using Shape Memory Alloys and unique kinematics to morph the shape of the pillow.

THE SPECIAL

- Shape Memory Alloy allows a smooth movement
- Completely noiseless
- compact design through functional integration
- Position holding without energy demand
- Precise positioning and sensing of current position

THE UNFAIR ADVANTAGE

- The first and only active pillow that is entirely noiseless while moving
- The first and only active pillow that works without additional equipment
- The first and only active pillow that is battery powered
- The first and only active pillow against skull deformations

TRL AND IP

- TRL 6
- IP is protected as a patent by the Fraunhofer Institute for Machine Tools and Forming Technology IWU

PREVIOUS INVESTMENT

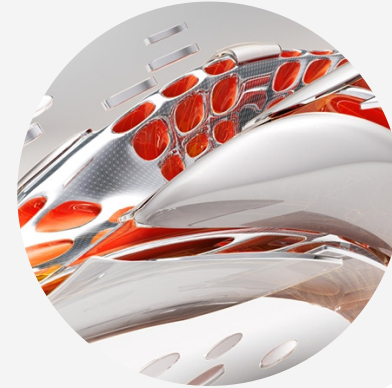
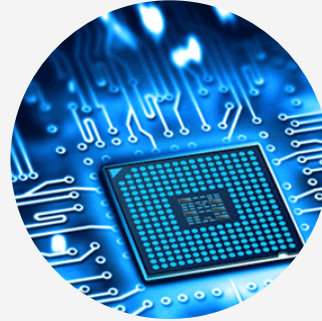
- ~ 600 T€ founded by the Federal Ministry of Education and Research

TIME TO MARKET

- ~ Two Years

Cumulino

THE OFFER



WE OFFER

- Technical Expertise in the field of Shape Memory Alloys Development to Market Maturity and Series Production
- Equity participation is possible

WE ARE LOOKING FOR

- Full Founding Team
- Economical Expertise (Marketing, Business Development, Finance, Sales etc.)
- And/or managing Director
- And/or Business Angel / Venture Capitalist

THE INCENTIVE

- Breakthrough product with enormous market potential in the lifestyle and the medical industry
- Opportunity for self-realisation through own design of final product and business model
- Shares of the new company

THE EXPECTATIONS

- Economic Background and/or Expertise
- Entrepreneurial Experience and Market Access
- Interested in lifestyle end consumer market and/or medical sector
- Enthusiastic and driven personality

