

energizing technology \_

## About Actiworks \_

Actiworks is an innovative high-tech company that develops individual, tailor-made apps and smart electronics.

With an interdisciplinary team of 25 developers, designers, consultants and engineers we implement software- and hardware projects with advanced technology and an outstanding user experience.



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## About Actiworks \_

Since the foundation of Actiworks in January 2011, we focus on individual solutions for optimized processes, for successful products and delighted users.

We follow a holistic development approach that allows us to create technological solutions optimized in an economic context. We create concepts with systematic creativity and depth technological knowledge.

With our proven development processes and our ISO 9001: 2008 certified quality management we implement your projects reliable and efficient.

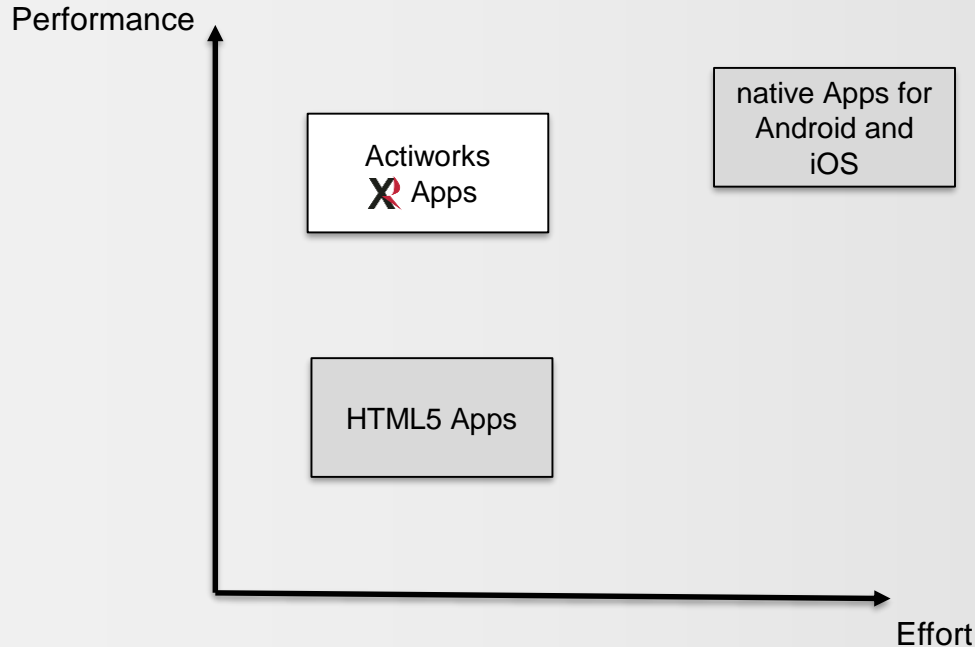


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## The Actiworks difference \_



With our experience of more than 100 projects, we have created a technology That allows us to develop apps for multiple platforms (iOS, Android, Web, ...) particularly efficient and powerful.



## Our Customers \_

Our client range spans many markets and company sizes — we work for Start Ups, SMEs and renown enterprises:

### **Automotive**

AUDI  
BMW Group  
Johnson Controls  
Magna  
Skoda Auto  
Volkswagen

### **eCommerce**

Groupon International  
DePauli AG

### **Gesundheit**

GE Healthcare  
VDW GmbH

### **Finance**

Sparkasse

### **Forschung**

Berufsverband Deutscher  
Markt- & Sozialforscher  
HelmholtzZentrum  
TU München

### **Publishing & Verlage**

Playboy Deutschland  
Publishing

### **Telekommunikation**

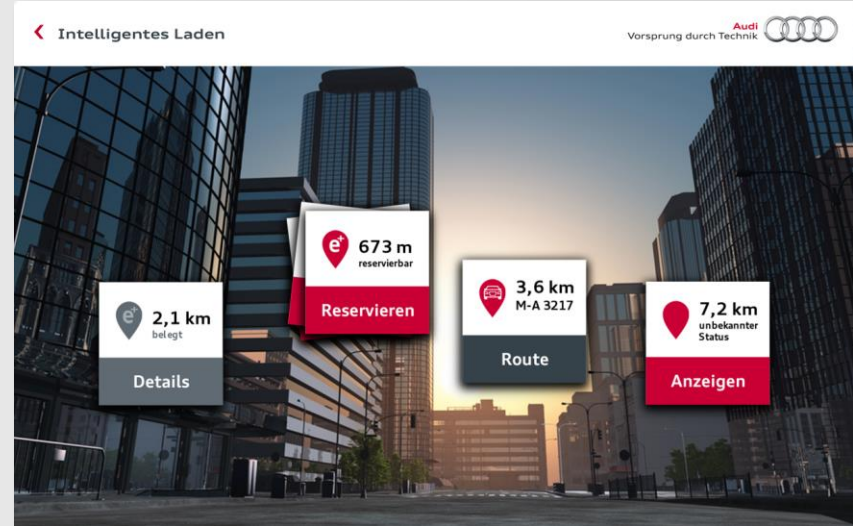
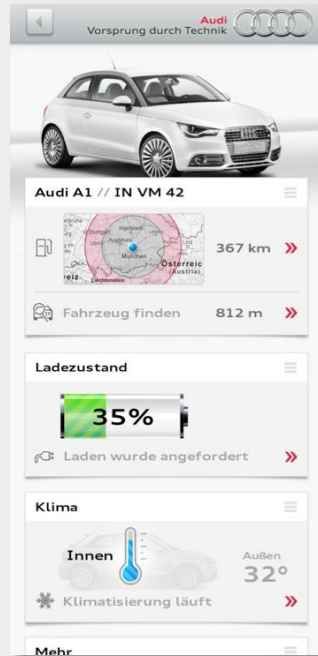
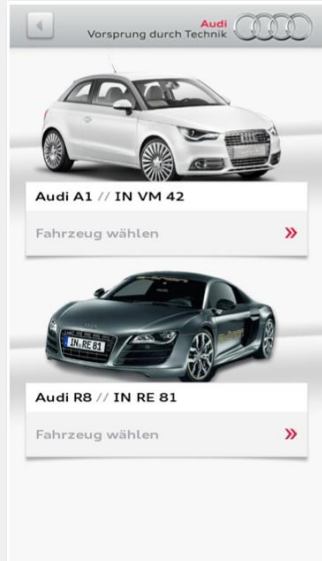
Telefonica O<sub>2</sub>

### **Mittelstand**

Royalbeach  
DV-Ratio  
Hottgenroth Software  
HYVE AG

# Project References \_

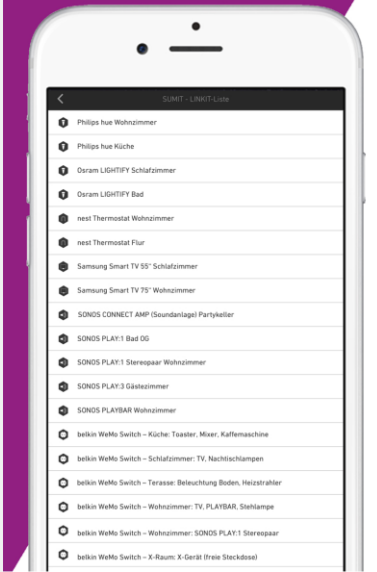
# Audi Connect – Intelligent charging \_



# iHaus — Smart Home Automation

Find

Geräte finden...



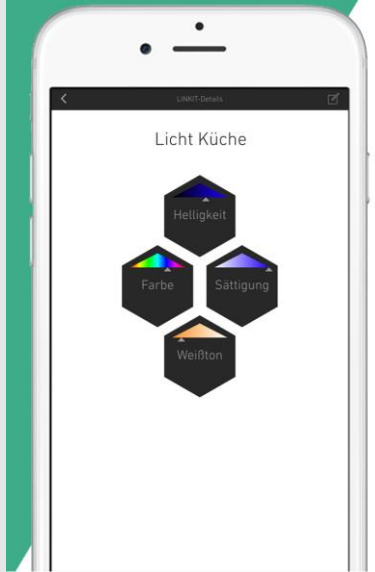
Add

hinzufügen...



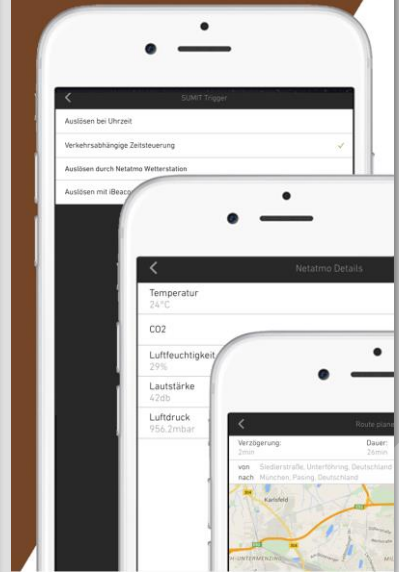
Control

steuern...



Automate

automatisieren!



Your Smart Home Devices

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# Focus Doctors List \_





Anrufen

Adressbuch

Senden



Experte für Bluthochdruck  
**Prof. Dr. Bernhard Banas**  
Franz-Josef-Strauß-Allee 11  
93053 Regensburg  
Tel: 09 41/9 44 73 10  
[www.uniklinikum-regensburg.de](http://www.uniklinikum-regensburg.de)


**Entfernung:**  
89 km

**Kollegenbewertung:**  
●●●

**Fachrichtung:**  
Nephrologie

**Studien:**



Was / Wen? 

Wählen Sie ein Fachgebiet:

Allergie & Asthma

▼

Augen & Ohren



▼


Bluthochdruck

▼

Ernährung

▼



Was / Wen? 

Bluthochdruck

×

Experte für Bluthochdruck  
**Banas, Prof. Dr.**  
Universitätsklinikum  
Regensburg

89 km

Experte für Bluthochdruck  
**Bargemann,**  
Gemeinschaftspraxis  
Kiel



684 km

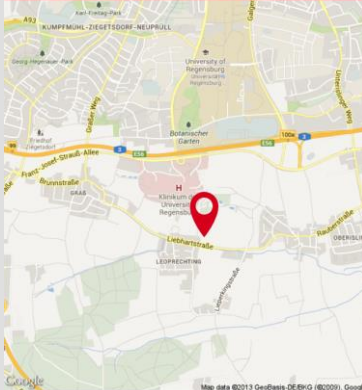
Experte für Bluthochdruck

Sortierung nach Name

Bewertung von Kollegen

Sortierung nach Entfernung





Map data ©2013 GeoBasis DE-Geo (©2009), Google

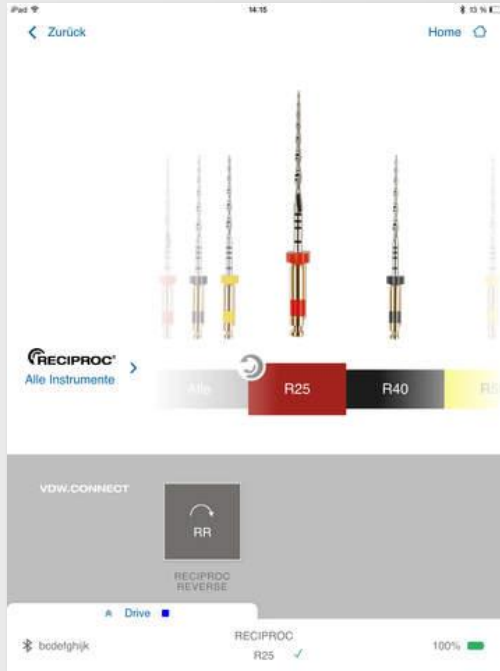
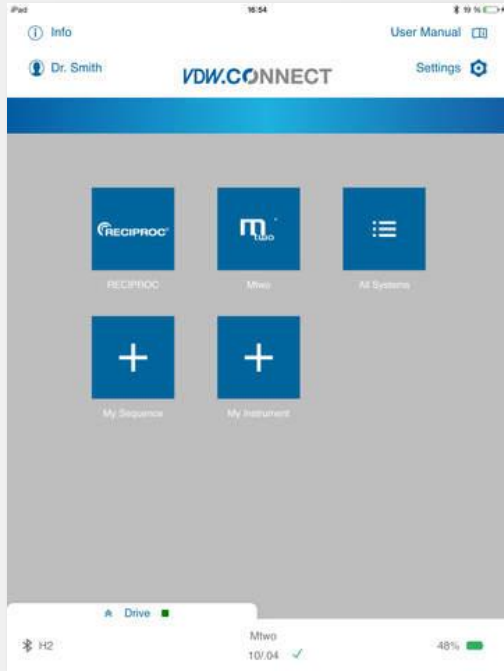
**Prof. Dr. Bernhard Banas**  
Universitätsklinikum

89 km

# Smart Fitness Ergometer \_



# VDW.CONNECT App (compliant to IEC 62304) \_

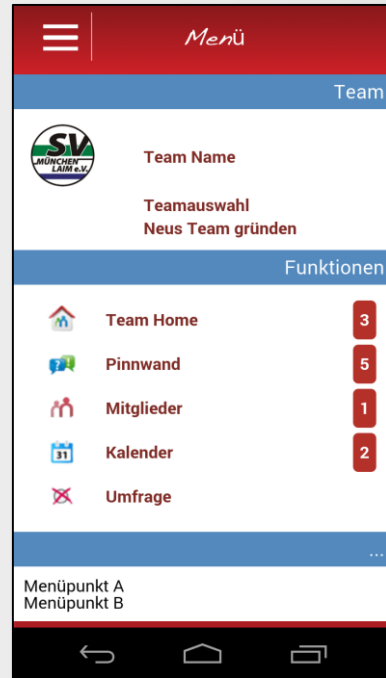
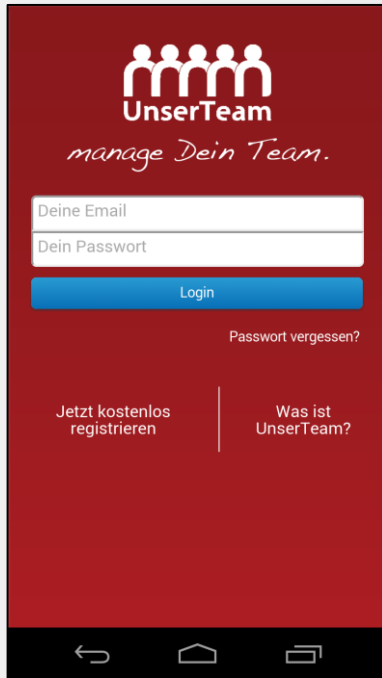


# blumbardo Order processing for craft enterprises \_

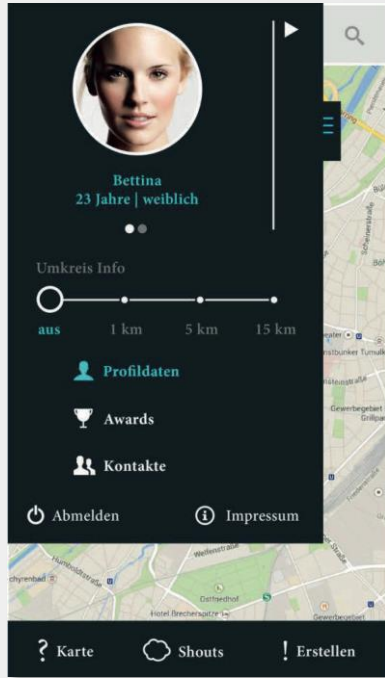
The image displays four overlapping screenshots of the blumbardo mobile application, illustrating the order processing workflow for craft enterprises.

- Top Left Screenshot:** Shows the login screen with fields for "Email" and "Passwort", buttons for "Anmelden", "Passwort vergessen", and "Registrieren".
- Top Middle Screenshot:** Shows the "Auftrag erfassen" (Record Order) screen. It includes options to "Auftrag annehmen" (Accept Order) and "Auftrag erteilen" (Assign Order), a list of communication methods (Telefon, Fax, E-Mail), and buttons for "abbrechen" (Cancel) and "weiter" (Next).
- Bottom Middle Screenshot:** Shows the "In Aufgaben suchen ..." (Search in Tasks) screen. It features a search bar, navigation buttons for "<", "Heute" (Today), ">", and "ohne T...", and a list of tasks such as "Waschbecken auswechseln" (Replace Sink) and "Mischbatterie anschließen ..." (Connect Mixer Faucet).
- Right Screenshot:** Shows the "Unterschrift Kunde" (Customer Signature) screen. It displays a handwritten signature and a "speichern" (Save) button.

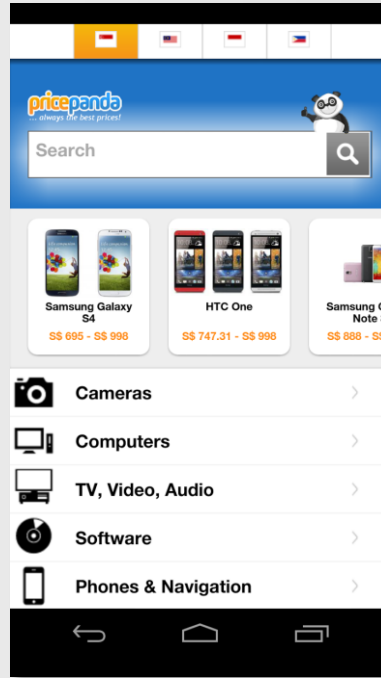
# Our Team \_



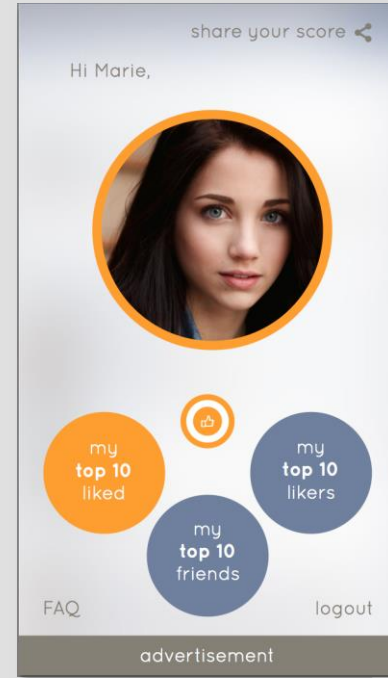
## Additional Apps \_



Social Apps



Mobile eCommerce



Mobile Facebook Apps

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[www.actiworks.de](http://www.actiworks.de)

Actiworks Application Solutions GmbH  
Parking 29  
85748 Garching bei München

Tel.: +49 89 2000 886 – 0  
Fax: +49 89 2000 886 – 11

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# Actiworks HTML5 Hybrid Apps \_



## Cross-platform development \_

- **Target:**  
A once developed app should be able to be ported with minimal effort on different platforms (iOS, Android, ...).
- **Problem:**  
The platforms have very different functional capabilities and development tools.
- **Solution:**  
Selection of suitable development methods that allow an application to run on all platforms

# HTML 5 Hybrid Apps — Cross-platform development \_

## Usual Platforms

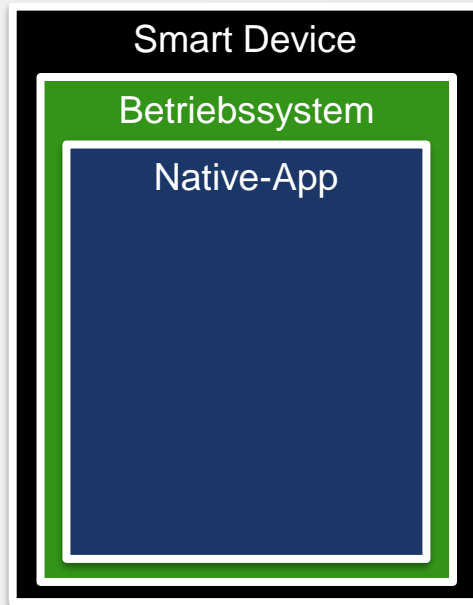
- **Smart Devices (Smartphones und Tablets)**
  - iOS
  - Anroid
  - Windows Phone
  - Blackberry
  - Firefox OS
  - ...
- **PCs**
  - Windows
  - Mac OSX
  - Linux
  - Chrome OS
  - ...

## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

- **Native-App:**  
App which is developed with the usual native development tools for a platform (iOS, Android, ...)
- **Web-App:**  
App, mainly based on the so-called Web technologies (HTML5, CSS3, JavaScript)
- **Hybrid-App:**  
Combination of Native- and Web-App, which combines the advantages of both concepts

## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

- **Native-App:**  
App which is developed with the usual native development tools for a platform (iOS, Android, ...)



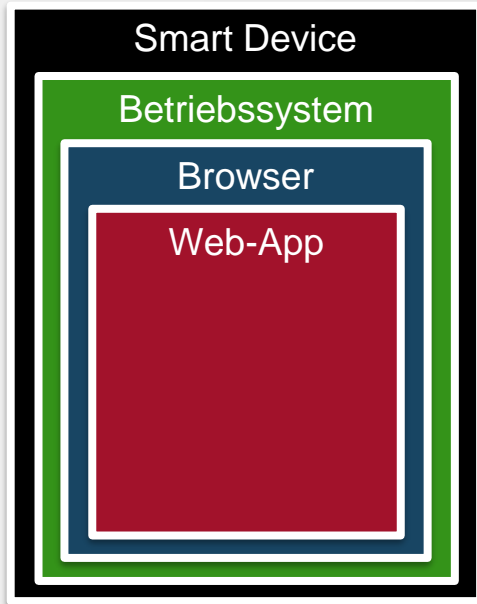
## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

- **Native-App:**  
App which is developed with the usual native development tools for a platform (iOS, Android, ...)
- **pros**
  - direct use of the platform tools
  - use of all device features (sensors, etc ...)
- **cons**
  - each platform requires a completely new development
  - significantly more complex project management for multiple platforms

## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

### **Web-App:**

App, mainly based on the so-called Web technologies (HTML5, CSS3, JavaScript).



### **App with Web technologies : HTML5/ CSS3/ JavaScript**

- Compatible to all modern browsers (Chrome, Firefox, Internet Explorer, ...)
- Compatible to all Smart-Device Plattformen and PCs (iOS, Android, Windows, Linux, ...)

## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

### **Web-App:**

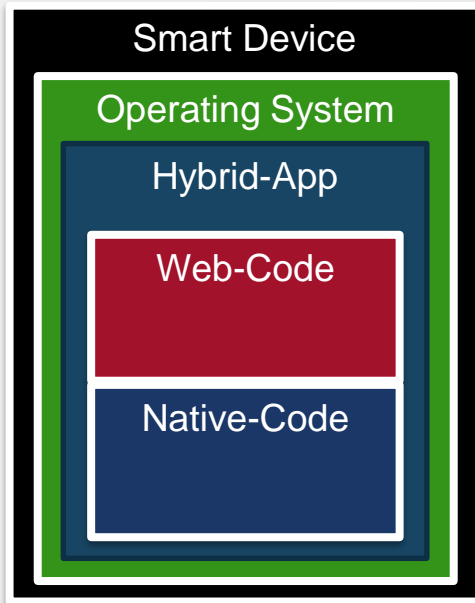
App, using mainly the so-called web technologies (HTML5, CSS3, JavaScript).

- **pro**
  - easy porting to different platforms
  - high future security even for new operating systems
- **con**
  - no distribution via App Store / Play Store possible
  - Device features can only be partially used

## HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

### Hybrid-App:

Combination of Native and web app that combines the best of both worlds.



#### **Platform-independent logic with HTML5 / CSS3 / JavaScript**

- Graphical interface of the app (user interface)
- Processes and external interfaces

#### **Native plug-ins to extend the Web code**

- Use of special devices features (sensors, ...)
- Hardware near / performance-critical functions



# HTML 5 Hybrid Apps — Difference to Web- und Native-Apps \_

## Hybrid-App:

Combination of Native and web app that combines the best of both worlds.

- **pro**
  - easy porting to different platforms
  - high future security even with new operating systems
- **con**
  - both Native and Web technologies must be mastered
  - limited portability of Native plugins

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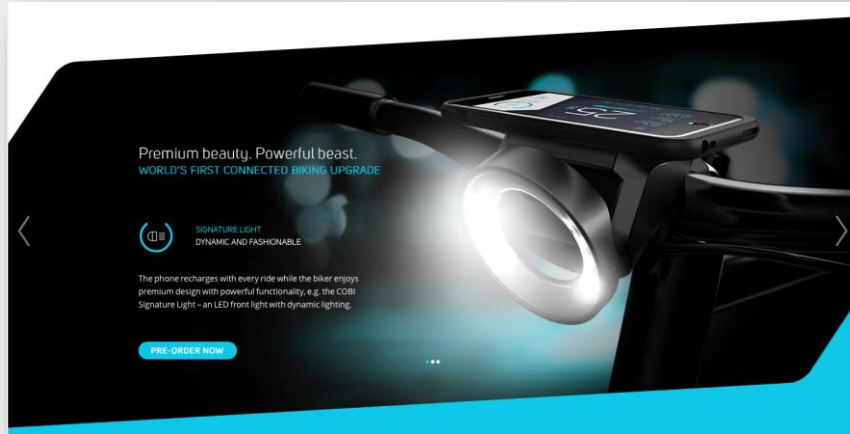
Actiworks Application Solutions GmbH  
Parking 29  
85748 Garching bei München

Tel.: +49 89 2000 886 – 0  
Fax: +49 89 2000 886 – 11

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# Actiworks Smart Electronics \_

# CO.BI Connected Bike — Connected Electronics Prototype \_



## CO.BI Connected Bike — Connected Electronics Prototype \_

- Design and technical consulting for the entire product
- Development Main System
  - Functional prototype based on a Raspberry PI
  - Bluetooth 4.0 Low Energy connection to the iPhone
  - SW Library for iPhone Bluetooth connection to the main system
  - Power management of multiple batteries
- Development Taillight Module
  - Functional prototype based on the TI Sensor Tag
  - Bluetooth 4.0 LE control for stop and tail light
  - WIFI activated rear view camera

# Remote monitoring of machine tools



## Remote monitoring of machine tools \_

- Development Cloud Service
  - Storage of Measured Values
  - User and Account Management
  - Visualizing the measurement results and map display
- Embedded Software Development
  - Data transmission via GSM
  - Measurement of machine parameters through various sensors
  - Optimization to minimize energy consumption for battery operation

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