

Prof. Dr. Frank J. Furrer

«Safety and Security of Cyber-Physical Systems»



Hauptseminar Sommersemester 2023

Day 3: 3rd July 2023

Schedule Day 3

Name	Presentation	Feedback
Furrer, Frank J.: <i>Introduction</i>	Introduction 09:20 – 09:40	
Tuan Anh Nguyen	09:40 – 09:55	09:55 – 10:05
Richard Müller	10:05 – 10:20	10:20 – 10:30
Short Break	10:30 – 10:45	
Franz Glöckner	10:45 – 11:00	11:00 – 11:10
Tom Felber	11:10 -11:25	11:25 – 11:35
Furrer, Frank J.: <i>Final Comments</i>	11:35 - 12:40	



Content

Part 1

- Papers
- Peer Reviews

Part 2

- Presentations
- Feedback

Part 3

- Final Words

Part 4

- Exams

Your Papers

Tom Felber

Topic:

OK

Storyline:

Interesting, great potential

Title:

Promise to reader unclear

Content:

Highly incomplete

Poor in figures

Contribution:

Inexistent



Franz Glöckner

Topic:

OK, Focus good

Storyline:

Excellent, fascinating

Title:

Good, clear promise

Content:

Far too many TODO's

Contribution:

Missing



Your Papers

Richard Müller

Topic:

Topic & Focus OK

Storyline:

Real good

Title:

Promise to reader unclear
What does he get?

Content:

Highly incomplete
148 Grammarly issues!
Too many TODO's

Contribution:

TODO

Tuan Anh Nguyen

Topic:

Storyline:

Real good, promising

Title:

Unclear. Promise?, Focus?



Content:

Highly incomplete
320 Grammarly issues!
Too many TODO's

Contribution:

None visible



Results 1st Draft of Papers2 x 2 x 0 x 

Results 1st Draft of Papers

... some good work:

✓ Choice of Topic

✓ Storyline





... you all have realized,
how much **hard work**
writing a good paper requires!

Time needed for a good paper
... is always underestimated



A warning from industry

- ✓ Understand your task assignment clearly and completely
- ✓ Reasonably object if deadline/objective is not realistic



✓ Deliver in-time

✓ Deliver excellent quality

✓ Each and every time overachieve !

Expressive **figures** are the secret of succesful papers

«One figure says more than 1'000 words»

Ursachen der Irrationalitäten

Suchen wir die tieferen Ursachen dieser gigantischen Verschwendung, der betäubenden Irrationalität, dieser offenbar unaufhaltsamen Abenteurersucht. Es gibt mehrere:

Zunächst ist ein Hang zur „Gigantomanie“ zu entdecken, die offensichtlich Politiker und Vorstände beseelt: Alle Bahnanlagen der ganzen Stadt kommen unter die Erde, eine Art Manhattan wird möglich, Stuttgart wird „Metropole“. München und Frankfurt., alle anderen Städte, denen dies auch angetragen wurde, lehnten es ab -- nur Stuttgart, sich Bundes-weit diskriminiert fühlend, stieg ein. Nun, wo die Zerstörung Platz greift, merken die Bürger, dass sie Opfer werden, Opfer von -- so formulierte es Benedikt Weibel, der ehemalige Vorstand der Schweizer Bundesbahnen -- Geltungssucht und Größenwahn!

Ein zweites Ursachenefeld liegt in der DB: es wurde und wird geschickt verborgen: Die DB Planer wussten und wissen, dass das Konzept und dessen Ziele sich gar nicht verwirklichen lassen. Wenn der Bahnbetrieb zu Bauzeiten weiter gehen muss, ist nur eine schmale Baugrube längs des Bahnhofsgebäudes möglich, die nur 8 (statt derzeit 17) Gleise erlaubt und beengte Bahnsteige mit schmalen Treppen bedingt. Damit sind die Sicherheit und die Leistungsfähigkeit sowie der Komfort der heutigen Anlagen nicht erreichbar. Wegen vorhandener S-Bahn- und U-Bahn-Tunnel muss der Tiefbahnhof mit Gefälle gebaut werden, was gegen deutsche und internationale Sicherheitsbestimmungen verstößt. Wegen der Tieflagen und der beengten Zu- und Abgänge ist der Brand- und Katastrophenschutz gemäß der Versammlungsstätten-Verordnung nicht erreichbar. Warum wurde dies zunächst verschwiegen und erst spät von Mitarbeitern an die Öffentlichkeit gebracht („121 Risiken“, publiziert im Magazin „stern“)? Die DB konterte zunächst mit irreführender Propaganda, verschleiern den Gutachten und behauptete unzutreffende Kosten. Seitdem mehr und mehr Experten die Falschbehauptungen der DB kritisieren und sogar Strafanzeigen erstatteten, schweigt sie zu den meisten Vorwürfen.

Damit ist ein viertes Ursachenefeld für die aktuelle Lage evident: Die DB AG und ihre Gremien haben unüberwindbare Mauern des Schweigens errichtet und pflegen konsequente Ignoranz gegenüber der Fachwelt der Fachpresse, den anerkannten Experten, dem kritisch gewordenen Publikum und sogar gegenüber dem Bundesrechnungshof und dem wissenschaftlichen Dienst des Deutschen Bundestags. Selbst wohlmeinende Schreiben und Vorschläge werden einfach ignoriert, offensichtlich in der Hoffnung, dass sich Vorschläge, Kritiken und Klagen von selbst erledigen, wenn erst einmal die „Umwkehrbarkeit“ mit maximalen Zerstörungen erreicht ist. Dies erscheint wohl auch deshalb erfolgversprechend, weil in den vergangenen Jahren die Medien dieser Ignoranz weitgehend folgten und kritiklos auch den unglaubwürdigsten Statements der DB folgten. Es gibt nur wenige Ausnahmen, vor allem in Berichten des Magazins „stern“. Aber auch in der ZEIT konnte man jüngst über den geplanten Bahnhof lesen: „weil er ein Symbol der Macht ist... Es geht um Merkel und Grube, um Ehre und Eitelkeiten...“

Neben dem Hang zur „Gigantomanie“, die offensichtlich die Promotoren bewegt, kann als weitere Ursache der Reiz des vielen Geldes gesehen werden, ausgelöst durch die Vision, dass Milliarden Euro Steuergelder in diese Stadt fließen sollen -- zum eigenen Vorteil und zu Lasten anderer! Hotels und Gaststätten, Vermieter, die tausende Gastarbeiter für die Tunnelbaustellen beherbergen, Handwerker und Bauunternehmer glauben zu profitieren. Gerade dafür scheinen die Schwaben anfällig: Wirkt hier die Freude eigener Vorteilsnahme, ja vielleicht sogar „Habsucht“, das unablässige Bestreben nach mehr Hab' und Gut -- egal wie viel man schon besitzt?



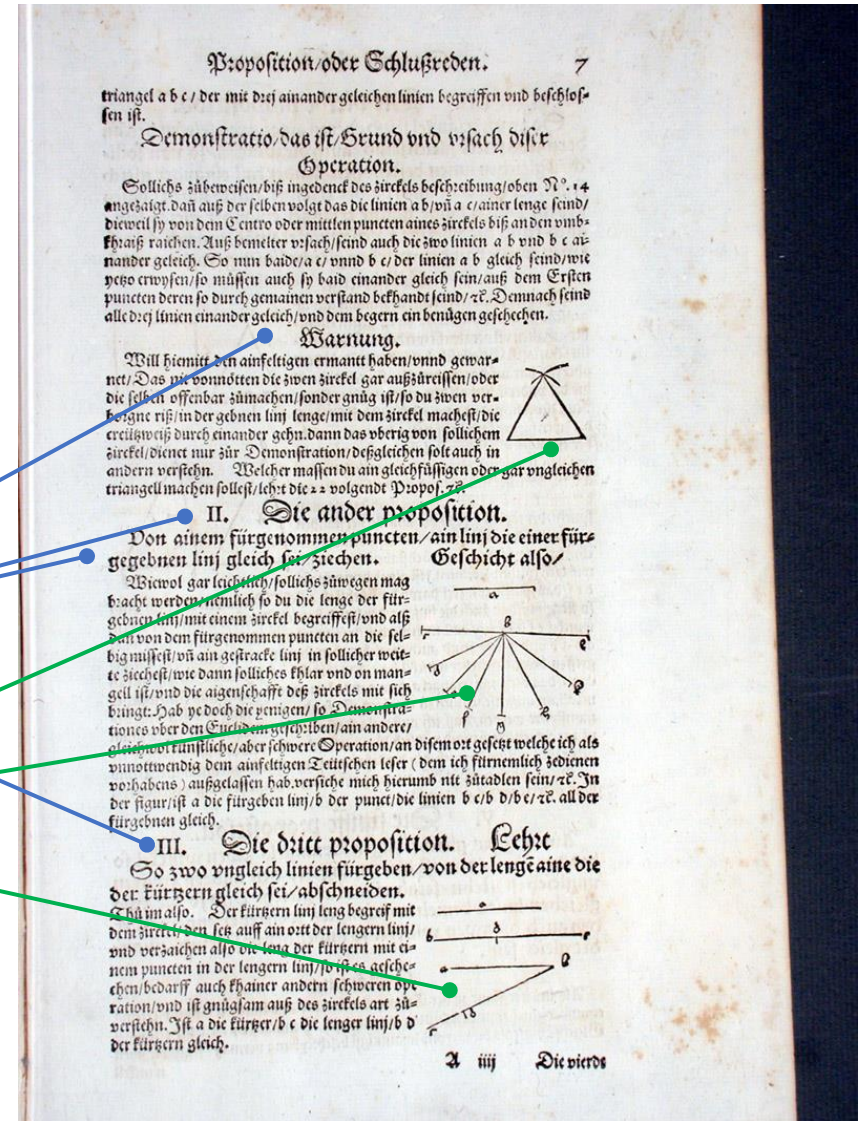
<https://www.heilpraxisnet.de>

Title hierachy and structure

Figures, photos, and illustrations

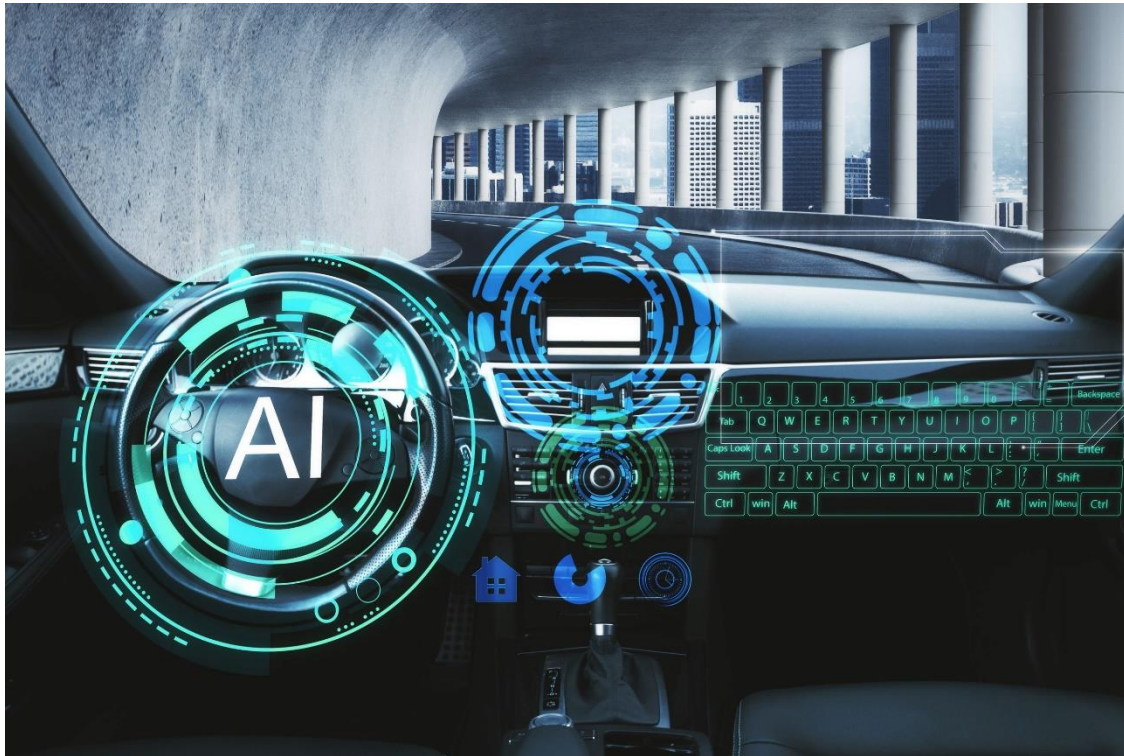


© HS Prof. Dr. Frank



<http://www.ub.unibas.ch>

<http://www.siegfried-busch.de>



Content

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Your Peer Reviews

Tom Felber

Depth:

none

Coverage:

Very poor

Usefulness:

Not much

Recommendations:

Poor



Franz Glöckner

Depth:

Sufficient

Coverage:

Thin

Usefulness:

Some valuable comments

Recommendations:

Very few



Your Peer Reviews

Richard Müller

Depth:

Unsatisfactory

Coverage:

Insufficient

Usefulness:

Limited

Recommendations:

Too few



Tuan Anh Nguyen

Depth:


Coverage:

Only paper **checklist** review received

Usefulness:

Recommendations:



Results Rpeer Reviews 1st Draft of Papers3 x 1 x 0 x 

3 elements of a helpful review

Paper Peer Reviews: **Remarks**



Praise [Lob]

Constructive Criticism

Warnings

as required

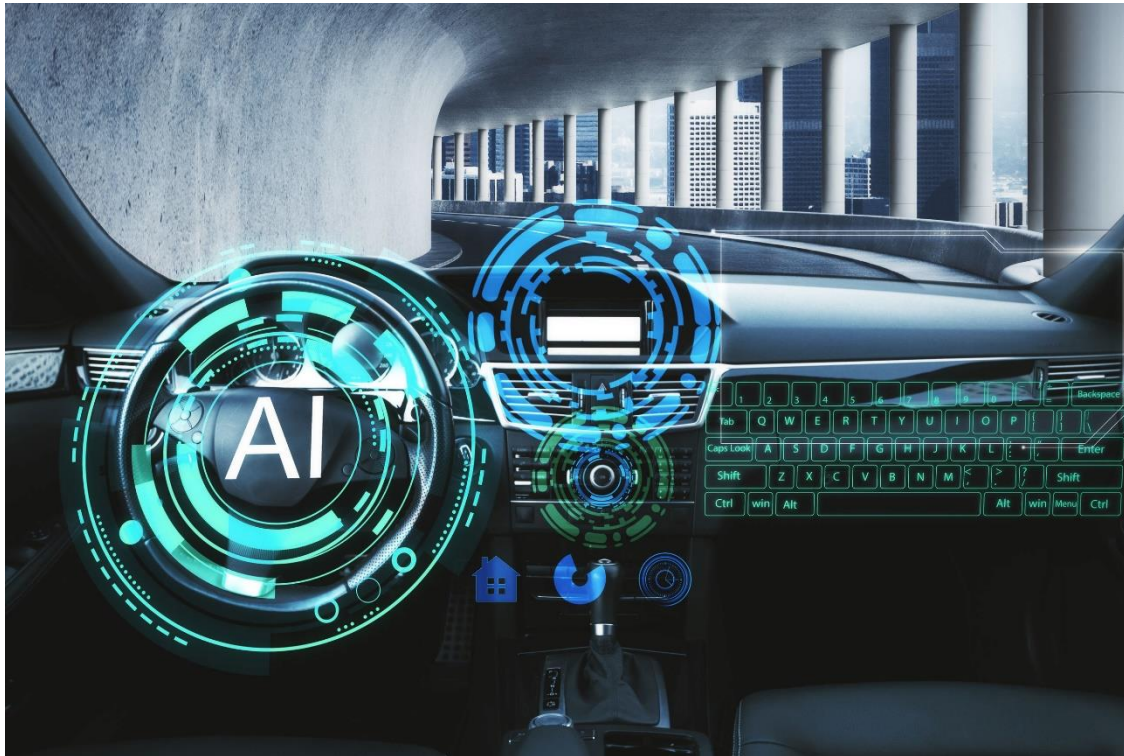
~10%

- specific
- precise

~80%

- targetted
- accurate

- justified
- unbiased



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Procedure

Presentation (15-20 mins)



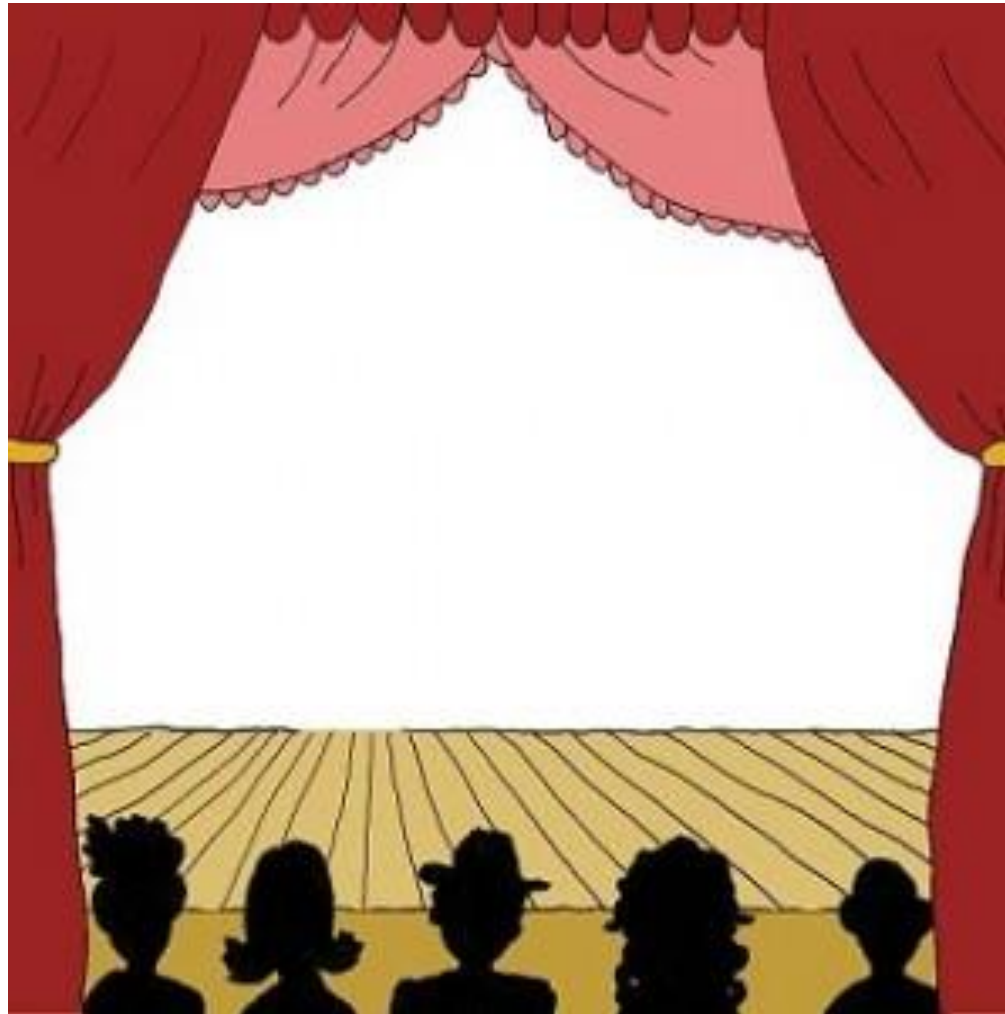
<http://magneticspeaking.com/blog/>

Audience Feedback (10 mins)

Storyline	<ul style="list-style-type: none"> Logical Consistent Attractive Clear 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Illustrations Pictures	<ul style="list-style-type: none"> Fitting/Adequate Granularity Power of Expression Support of Speaker 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Animation	<ul style="list-style-type: none"> Focussed (emphasizing the message of the slide) Speed Unnecessary effects Timing 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Density	<ul style="list-style-type: none"> Too dense (per slide or per time unit) Too slow (more material per slide or per time unit) Balance of slides Bullet point lists 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Delivery	<ul style="list-style-type: none"> Personal style Interaction with the audience Complementary speech/illustrations 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>

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... the stage is yours!

Assessment of Presentation:

Tuan Anh Nguyen

Storyline	<ul style="list-style-type: none"> • Logical • Consistent • Attractive • Clear 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Illustrations Pictures	<ul style="list-style-type: none"> • Fitting/Adequate • Granularity • Power of Expression • Support of Speaker 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Animation	<ul style="list-style-type: none"> • Focussed (message of the slide) • Speed • Unnecessary effects • Timing 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Density	<ul style="list-style-type: none"> • Too high • Too low • Balance of slides • Bullet point lists 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Delivery	<ul style="list-style-type: none"> • Personal style • Interaction with the audience • Complementary speech/illustrations 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Message	<ul style="list-style-type: none"> • Precise • True • „catching“ 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>

✓

✓

✓

✓

✓

✓

Assessment of Presentation:

Richard Müller

Storyline	<ul style="list-style-type: none"> • Logical • Consistent • Attractive • Clear 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Illustrations Pictures	<ul style="list-style-type: none"> • Fitting/Adequate • Granularity • Power of Expression • Support of Speaker 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Animation	<ul style="list-style-type: none"> • Focussed (message of the slide) • Speed • Unnecessary effects • Timing 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Density	<ul style="list-style-type: none"> • Too high • Too low • Balance of slides • Bullet point lists 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Delivery	<ul style="list-style-type: none"> • Personal style • Interaction with the audience • Complementary speech/illustrations 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Message	<ul style="list-style-type: none"> • Precise • True • „catching“ 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>

✓

✓

✓

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✓



Short Break:
10:30 - 10:45

Assessment of Presentation:

Franz Glöckner

Storyline	<ul style="list-style-type: none"> • Logical • Consistent • Attractive • Clear 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Illustrations Pictures	<ul style="list-style-type: none"> • Fitting/Adequate • Granularity • Power of Expression • Support of Speaker 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Animation	<ul style="list-style-type: none"> • Focussed (message of the slide) • Speed • Unnecessary effects • Timing 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Density	<ul style="list-style-type: none"> • Too high • Too low • Balance of slides • Bullet point lists 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Delivery	<ul style="list-style-type: none"> • Personal style • Interaction with the audience • Complementary speech/illustrations 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Message	<ul style="list-style-type: none"> • Precise • True • „catching“ 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>

✓

✓

✓

✓

✓

✓

Assessment of Presentation:

Tom Felber

Storyline	<ul style="list-style-type: none"> • Logical • Consistent • Attractive • Clear 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Illustrations Pictures	<ul style="list-style-type: none"> • Fitting/Adequate • Granularity • Power of Expression • Support of Speaker 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Animation	<ul style="list-style-type: none"> • Focussed (message of the slide) • Speed • Unnecessary effects • Timing 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
Density	<ul style="list-style-type: none"> • Too high • Too low • Balance of slides • Bullet point lists 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>
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Message	<ul style="list-style-type: none"> • Precise • True • „catching“ 	Excellent <input type="checkbox"/> Good <input type="checkbox"/> Improvable <input type="checkbox"/>

✓

✓

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✓



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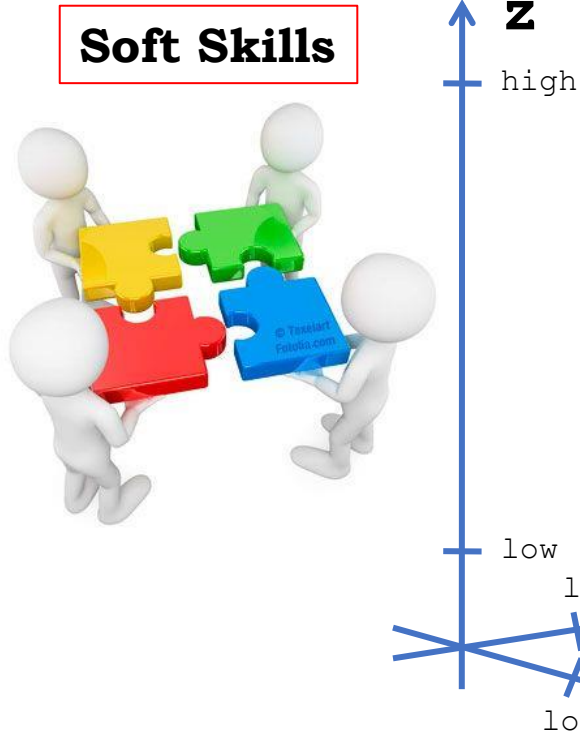
- Final Words

Part 4

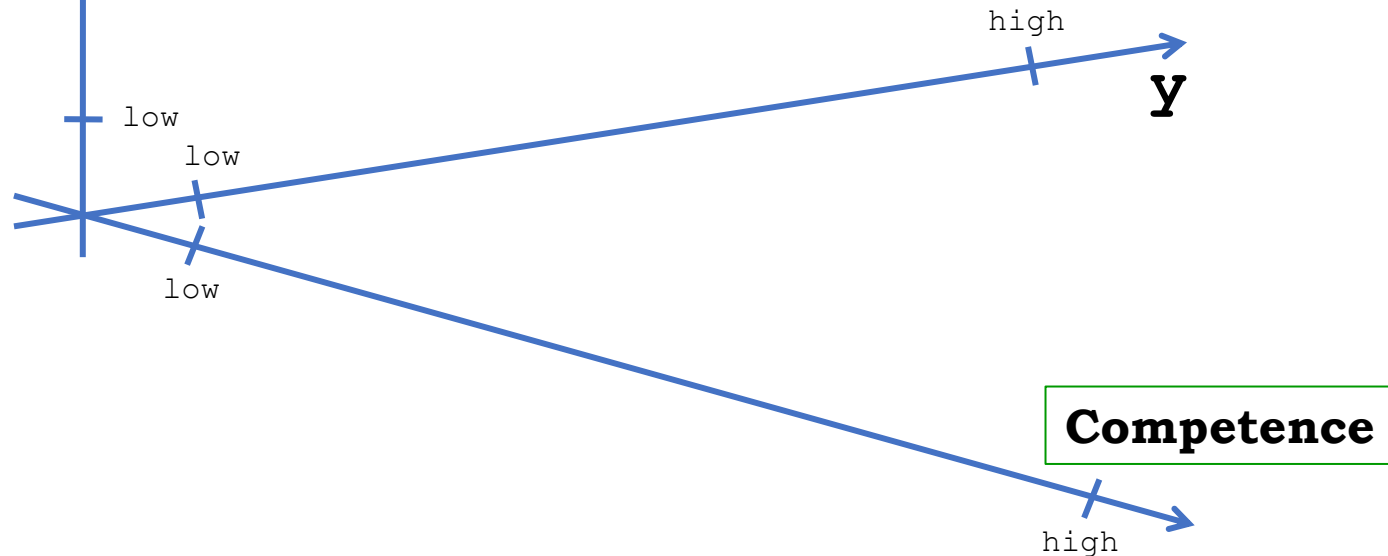
- Exams

- ✓ Skills Coordinate System
- ✓ Soft Skills
- ✓ Personality
- ✓ Burn-Out

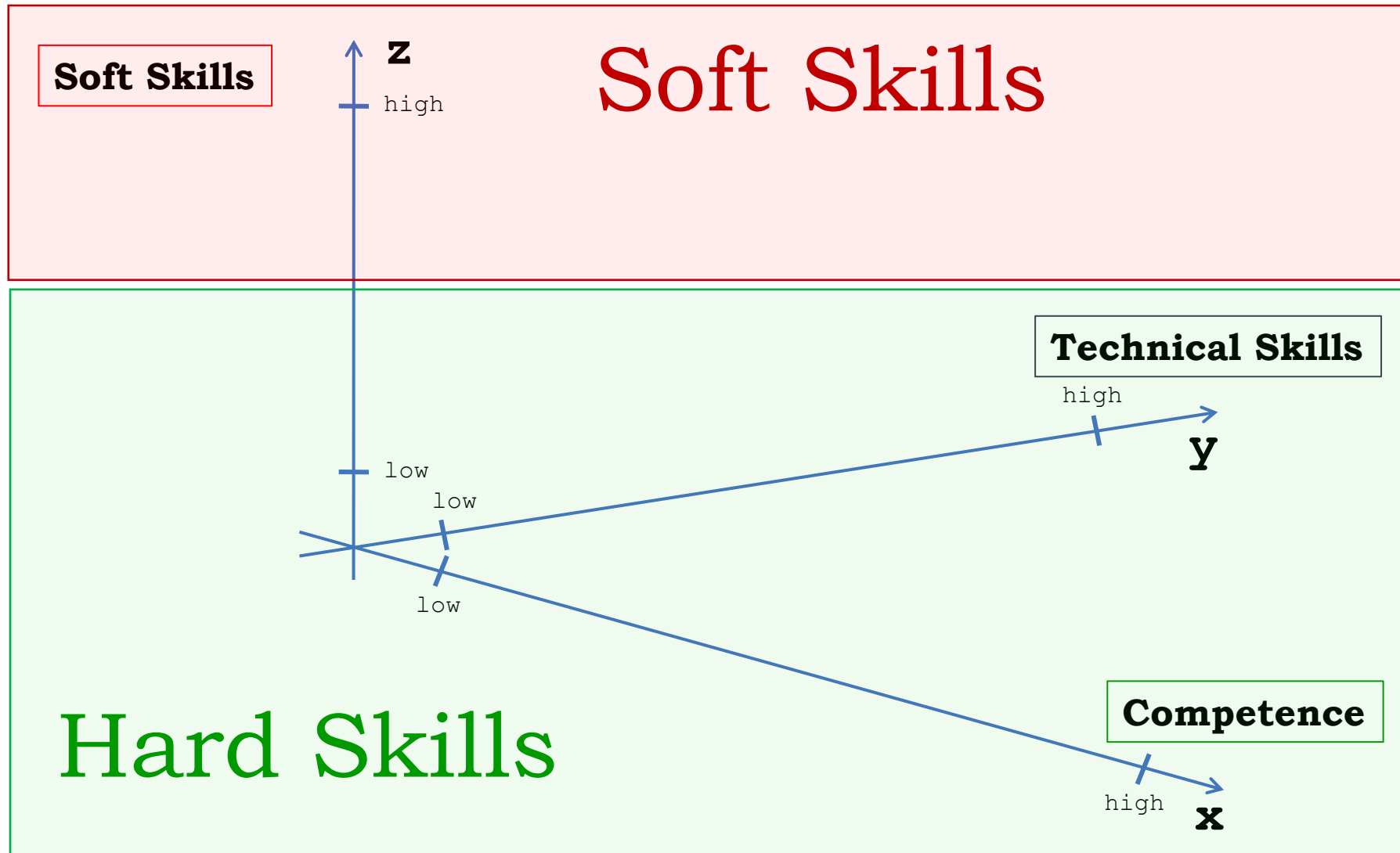
Skills Coordinate System



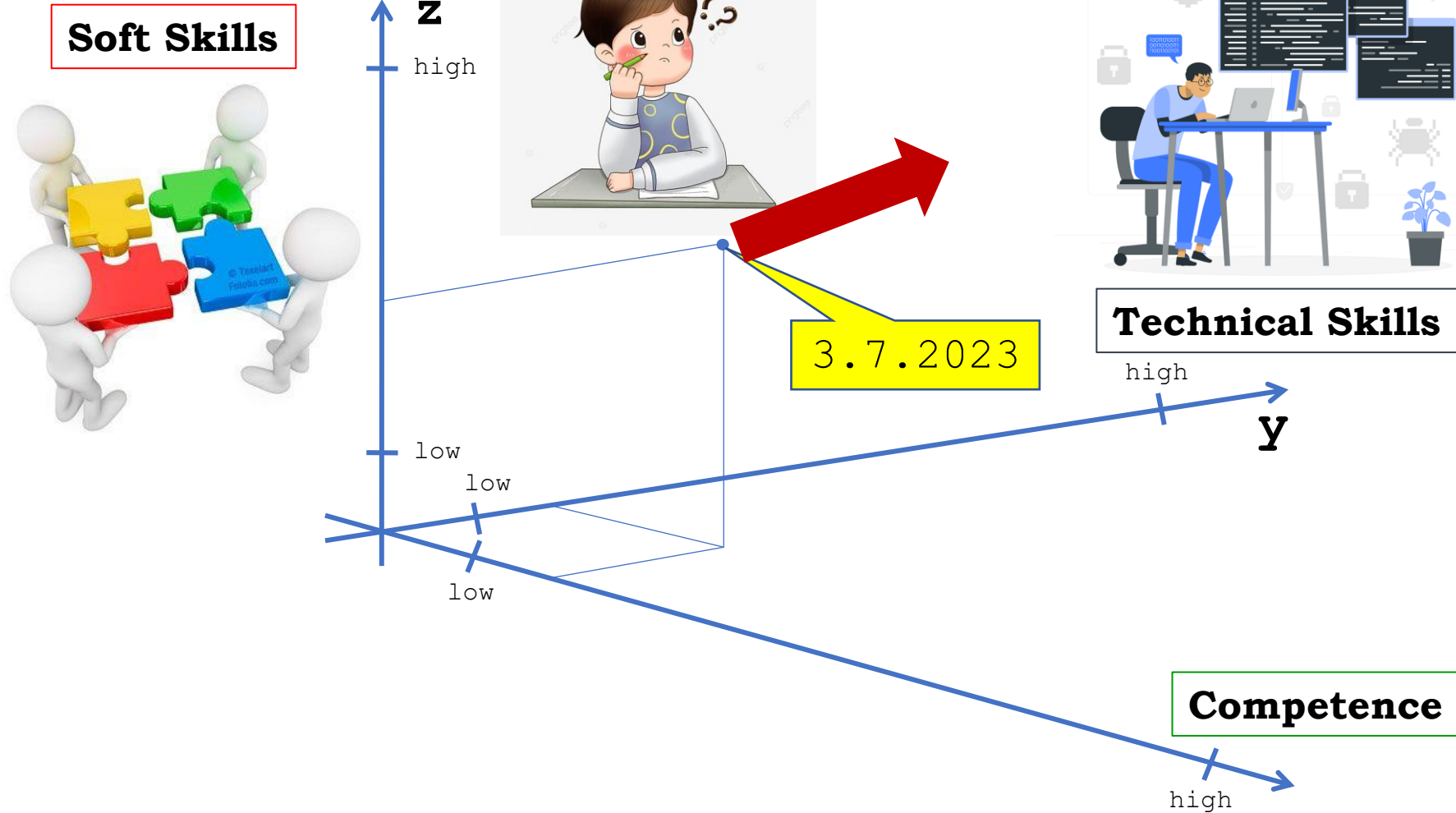
Technical Skills

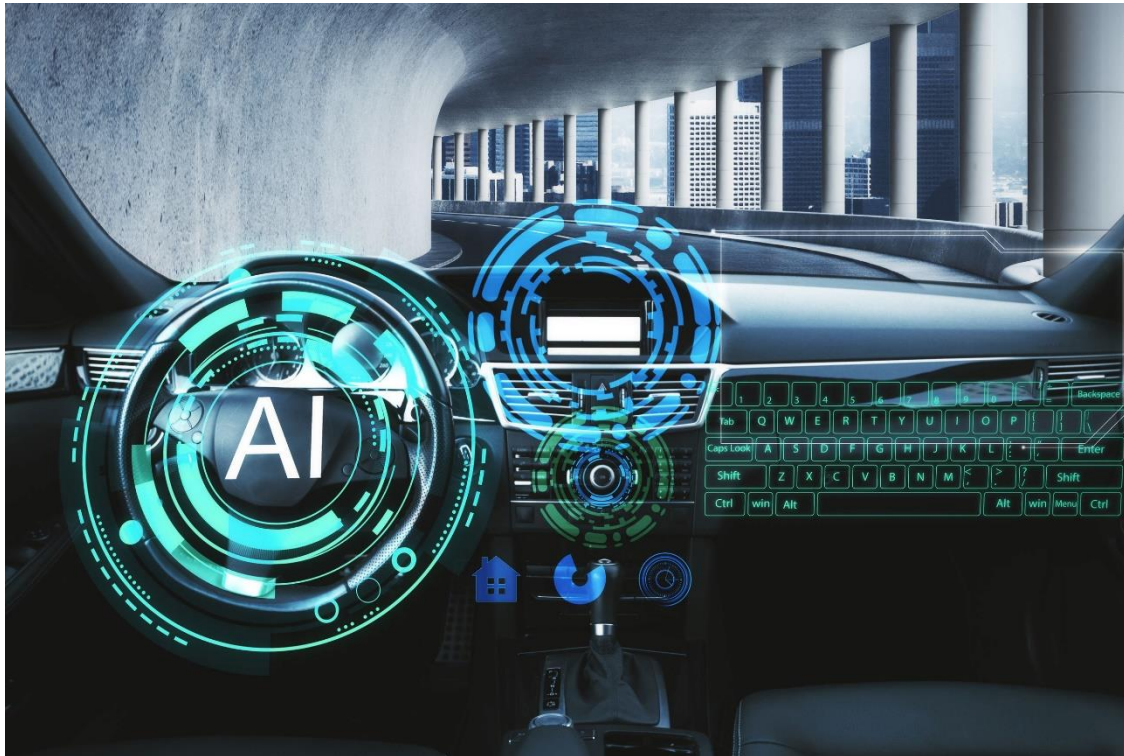


Skills Coordinate System



Skills Coordinate System





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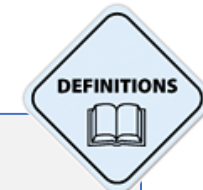
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- ✓ Skills Coordinate System
- ✓ Soft Skills
- ✓ Personality
- ✓ Burn-Out

Soft Skills



Soft Skills =

Personal attributes that enable someone to interact
effectively and harmoniously with other people.

<http://www.oxforddictionaries.com>

Soft Skills

„The fundamental principle behind any *soft skill* is to cultivate the perception in **other people's minds** that they can gain and benefit by engaging with us“

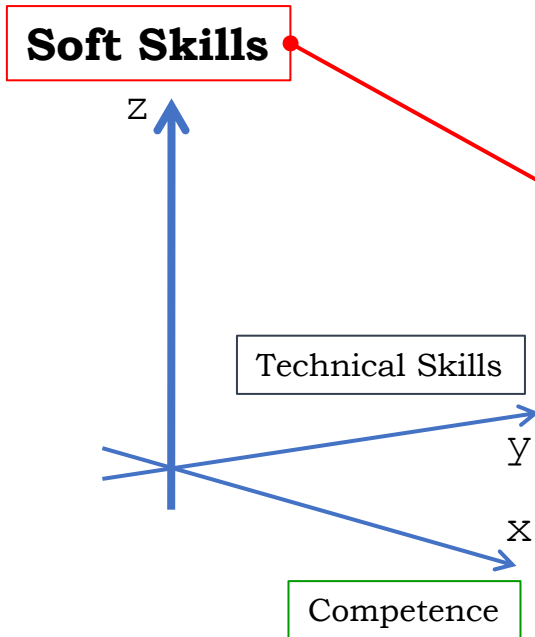
[Wushow Chou 2013, ISBN 978-1-118-52178-6]

Fast-Tracking Your Career

Soft Skills for Engineering and IT Professionals

Wushow "Bill" Chou





Soft Skills

- Negotiation skills
- Persuasion capability
- People interaction capability
- Enthusiasm
- Leadership
- Socializing/Networking
- Team Work
- Honesty (Ethics)

• Work-life balance

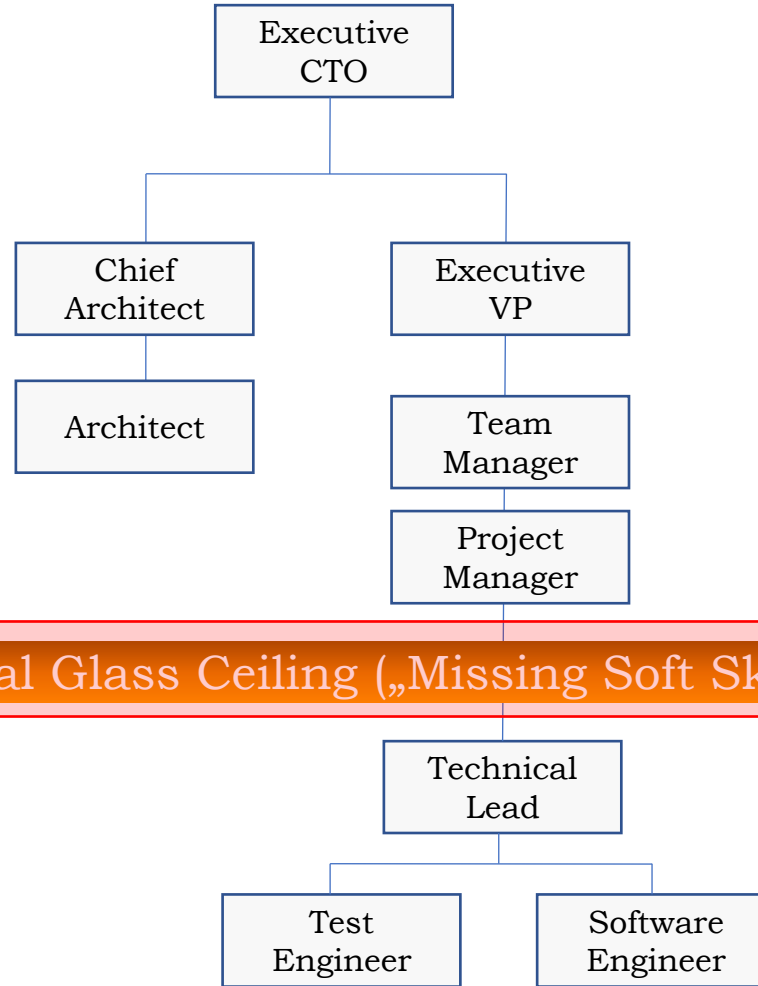
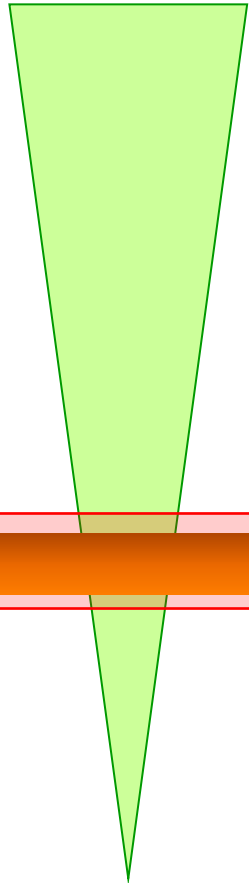


<http://samingersoll.com/life-work-balance/>

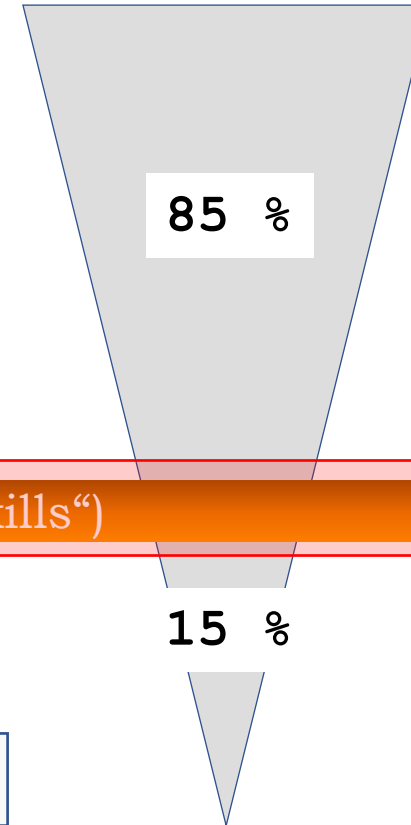
Hard Skills ↔ Soft Skills: Which are more important?



Personal Impact



Personal Financial Success



Technical Glass Ceiling („Missing Soft Skills“)



Dale Carnegie, 1937
ISBN 978-1-4391-9919-0

Dave Hendricksen, 2012, ISBN 978-0-321-71729-0



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Personality

Personality



Context-dependent:

- ❖ Father
- ❖ Teacher
- ❖ Policeman
- ❖ ...



Important Concept_

The Role

Personality:

The combination of characteristics or qualities that form an individual's distinctive character

[The New Oxford Dictionary of English]



Example: Future-Proof Software-Systems Engineer Personality

Mission:

The future-proof software-systems engineer

guides, consults, and **forces** the development teams

to build and maintain

sustainable, trustworthy, efficient, and **effective** software-systems

Photo Credit: Silvia Furrer



Courage

Fighting Spirit

<http://www.wildanimalfightclub.com>



Wisdom

Mediation Capability

http://en.wikipedia.org/Great_Horned_Owl



<http://www.faringa.net>

Praising and Reprimanding

<http://www.mindtools.com>



Praise:

- honest
- precise
- no „..., but ...“
- (can be) personal

„Your design of the module ABC is clear and elegant. I like it“



<http://footage.shutterstock.com>

Reprimand:

- true
- precise
- fair
- constructive
- never personal

„You did not take into consideration that a suitable data structure is already existing“

... and – most important:

Honesty
(Ehrlichkeit)



<http://warrencampdesign.com>

(Professional) Competence:

Your professional advice must be (provably) correct and believable, as well as realistic

Behaviour:

Your behaviour must be truthful, fair and human in all situations

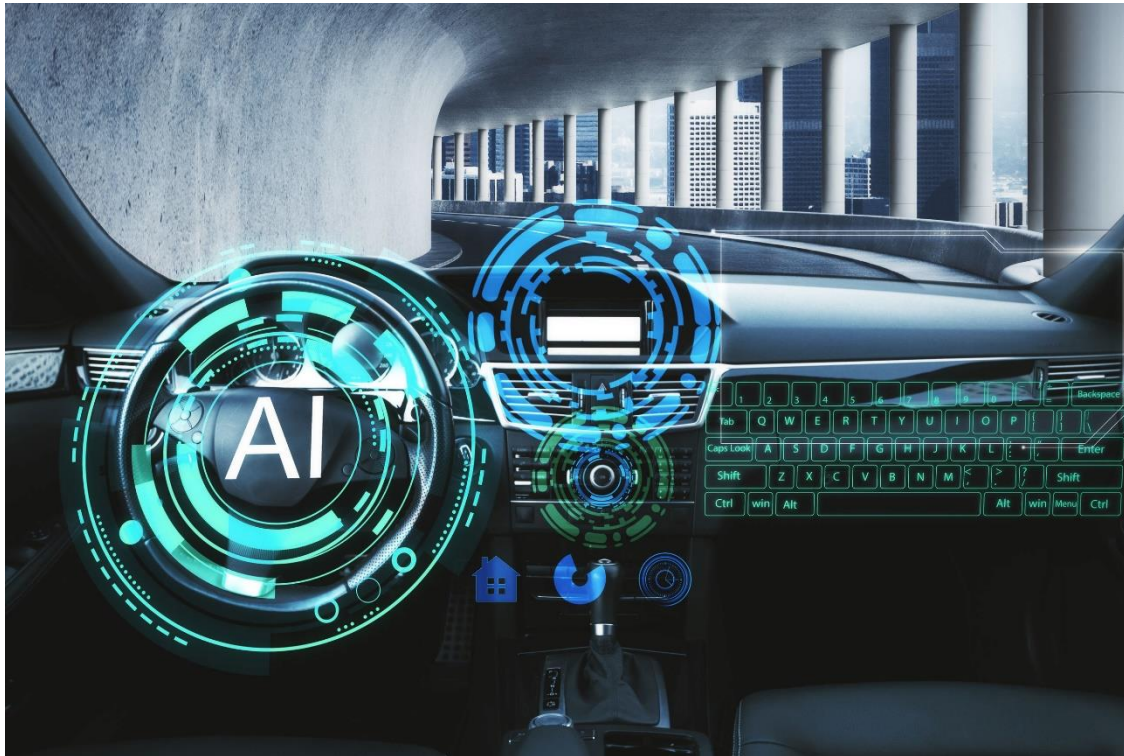
Software Engineering **Ethics**

ACM/IEEE: Software Engineering Code of Ethics and Professional Practice (© 1999)

1. PUBLIC - Software engineers shall act consistently with the public interest.
2. CLIENT AND EMPLOYER - Software engineers shall act in a manner that is in the best interests of their client and employer consistent with the public interest.
3. PRODUCT - Software engineers shall ensure that their products and related modifications meet the highest professional standards possible.
4. JUDGMENT - Software engineers shall maintain integrity and independence in their professional judgment.
5. MANAGEMENT - Software engineering managers and leaders shall subscribe to and promote an ethical approach to the management of software development and maintenance.
6. PROFESSION - Software engineers shall advance the integrity and reputation of the profession consistent with the public interest.
7. COLLEAGUES - Software engineers shall be fair to and supportive of their colleagues.
8. SELF - Software engineers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of the profession.

<http://www.acm.org/about/se-code>





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Burn-Out



An excessive *mismatch* of
Work ↔ Life balance
may lead to a **burnout**



Burnout

Emotional and physical ***exhaustion***
resulting from a combination of ***exposure***
to environmental and internal ***stressors***
and ***inadequate coping*** and lack of adaptive skills

<http://medical-dictionary.thefreedictionary.com/burnout>

... Burnout is an extremely serious medical condition!



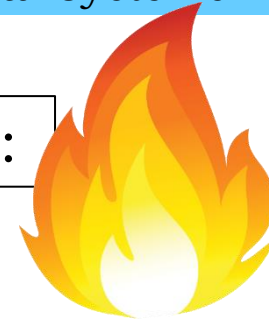
The Tell Tale Signs of Burnout

<https://www.psychologytoday.com/blog>

Signs of physical and emotional exhaustion:

- Chronic fatigue
- Insomnia
- Forgetfulness/impaired concentration and attention
- Physical symptoms (chest pain, heart palpitations, shortness of breath, gastrointestinal pain, dizziness, fainting, and/or headaches)
- Increased illness
- Loss of appetite
- Anxiety
- Depression
- Unmotivated anger

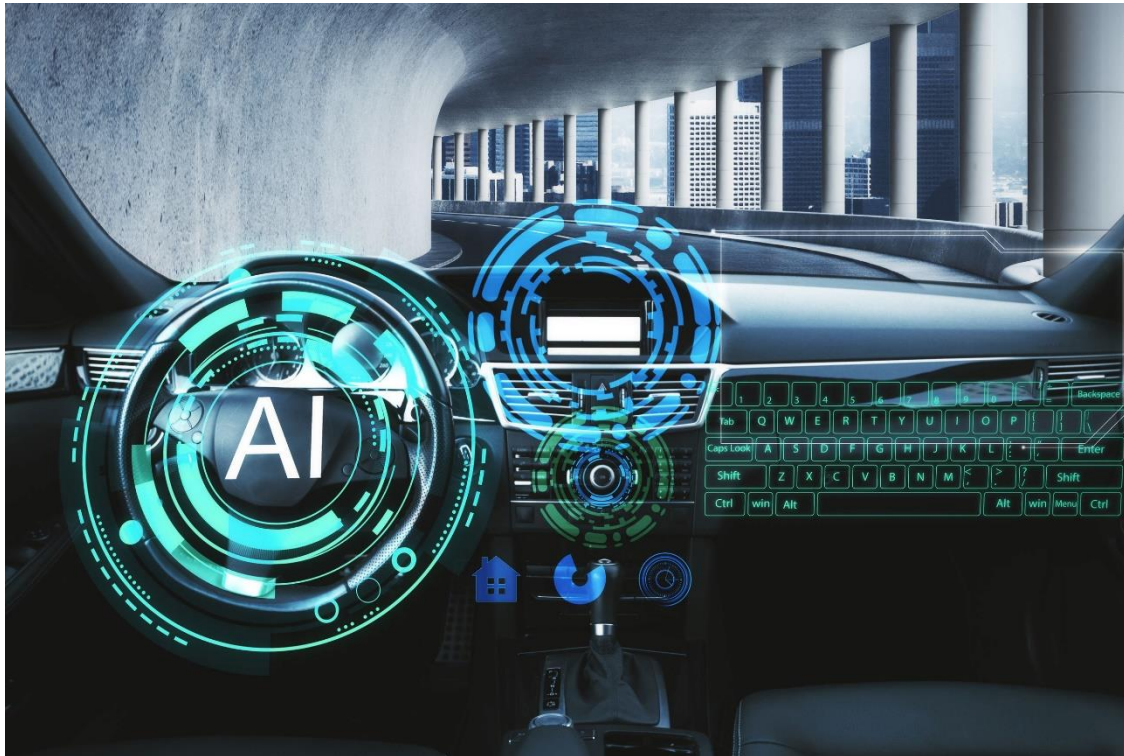
... In your professional life you have two responsibilities:



1) **Early recognition** of symptoms for burnout in **yourself**
⇒ get help (books, family, medical support, ...)

2) **Early recognition** of symptoms for burnout in **your colleagues**
⇒ give + search help





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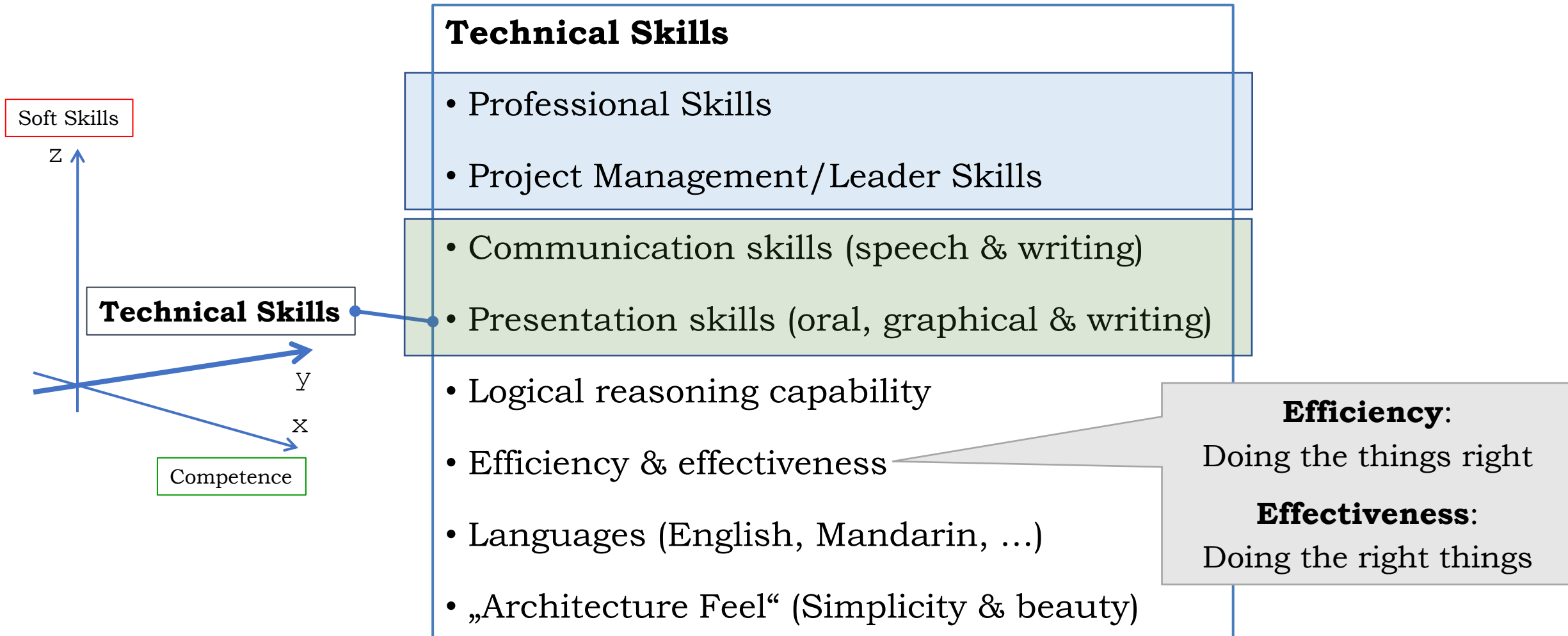
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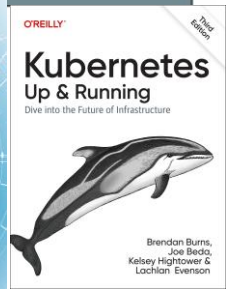
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✓ Technical Skills

Skills: **Technical Skills**

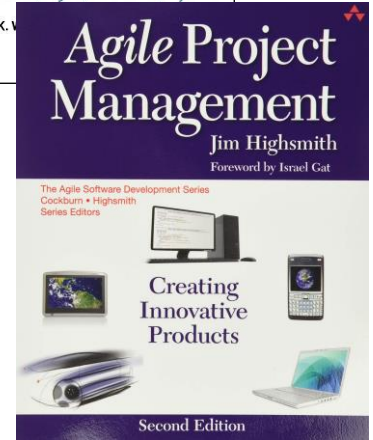
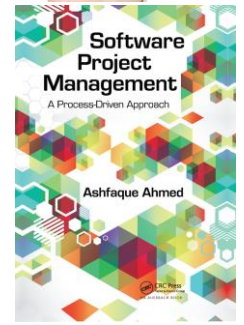
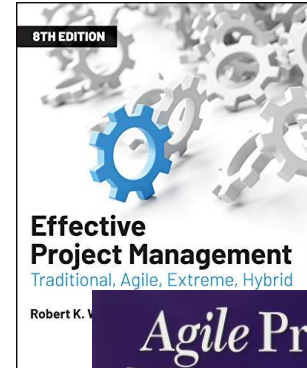


Programming

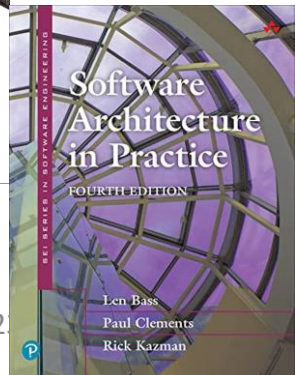
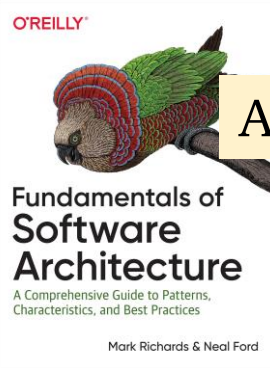


Professional Skills

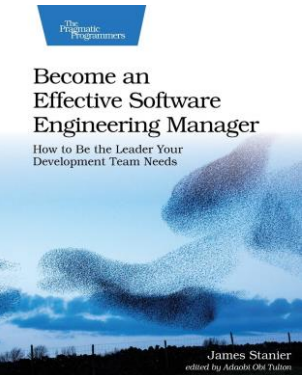
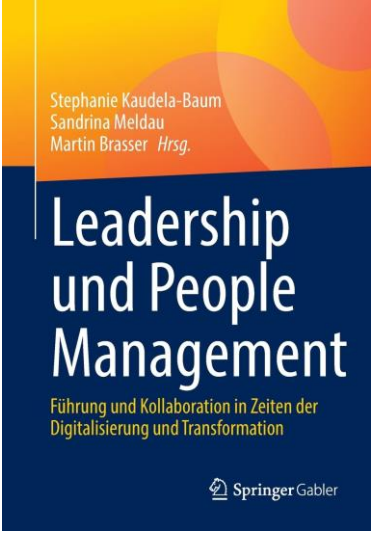
Project Management



Architecting



People Management



03.07.2023

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https://classroomclipart.com/

https://www.wallpaperflare.com

https://www.istockphoto.com/de/grafiken/system-architect

https://www.clipartmax.com

Important: **Communications skills**

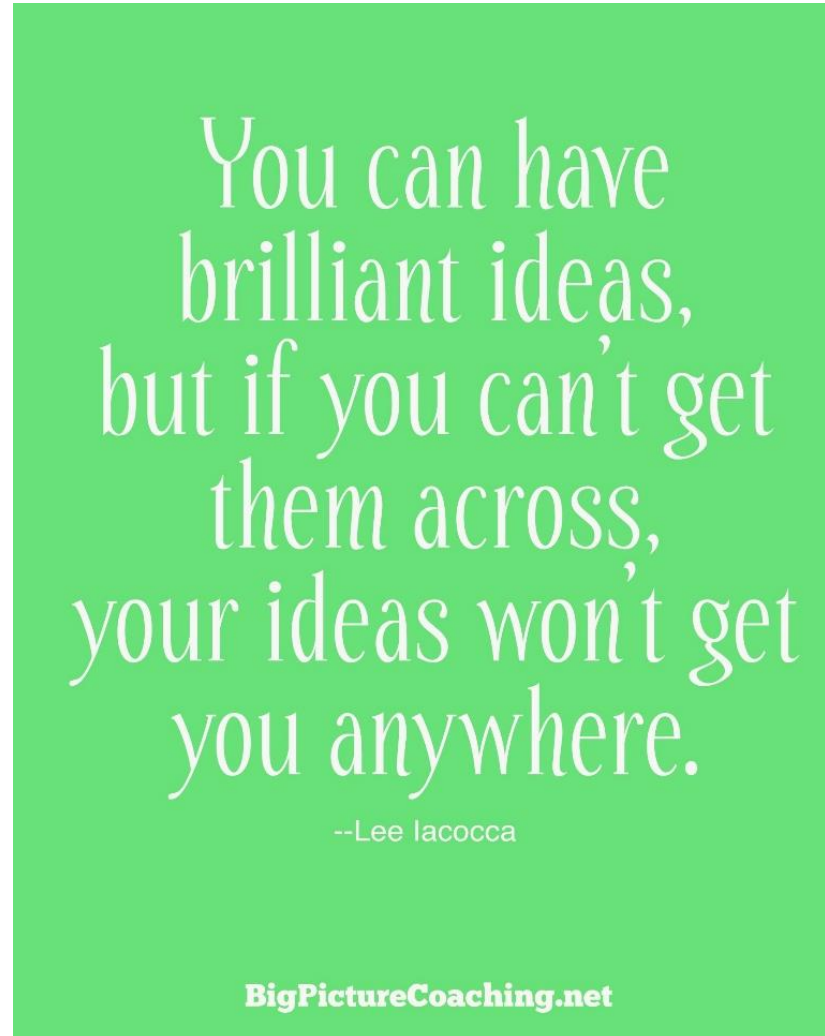
Writing:

- Papers
- Reports
- Proposals
- Books
- Reviews
- ...



Presenting:

- Results
- Proposals
- Requests
- Milestones
- Failures
- ...





Content

- Papers
- Peer Reviews

Part 1

Part 2

- Presentations
- Feedback

Part 3

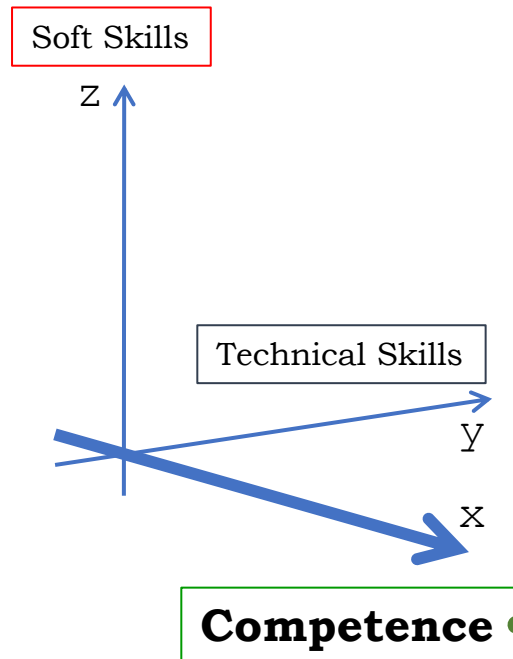
- Final Words

Part 4

- Exams

✓ Competence

Skills: **Competence**



(Professional) Competence

- IT (architecture) knowledge
- IT (practical) experience
- State-of-the-Art knowledge (broad, hardware, software, processes)
- Technology mastering (HW & SW)
- Business knowledge
- Innovation capability
- Implementation power & persistence
- Vision



Competence

You must be:

A reliable, trustworthy, and responsible source
of Knowledge, Advice, and Guidance



Competence: Life-Long Learning

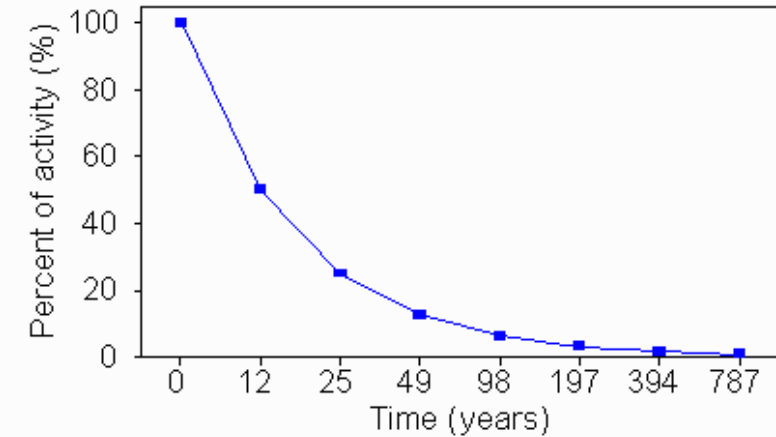
„Half-Life of IT-Engineering Knowledge“

Which is the half-life of IT-engineering knowledge ?

Def: The time-span after which *half* of your current IT-knowledge has become obsolete
 [→ as a marketable, personal asset]

Decay Curve for Tritium

Amount of radioactivity vs time



<http://www.chem.csustan.edu/chem3070/3070m04.htm>

Field	Half-life (in years)
Physics	13
Mathematics	9
Economics	9
Computer Science	6

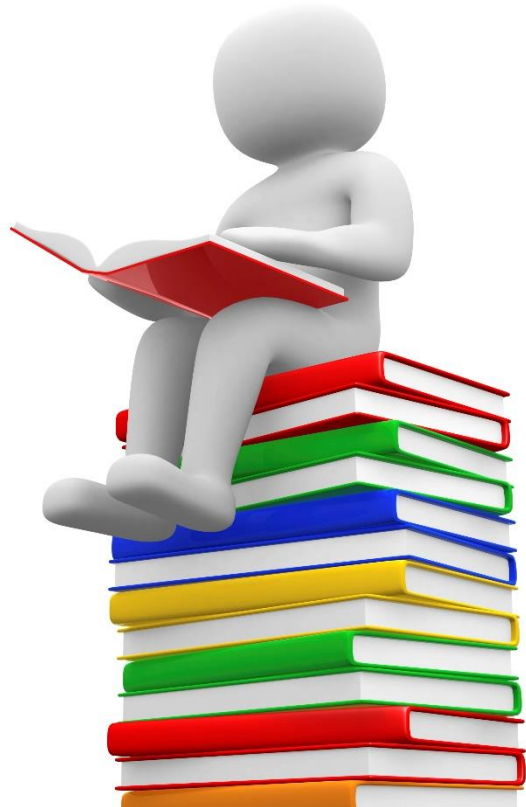
Competence: Life-Long Learning

„Half-Life of IT-Engineering Knowledge“: **6 years**

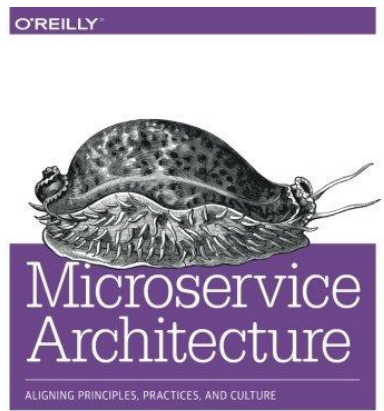
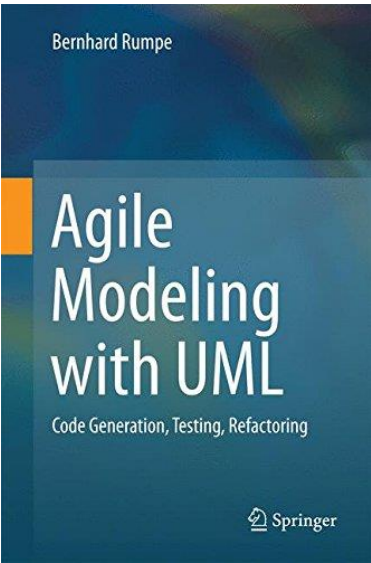
Remedy: Read ≥ 8 textbooks per year

≥ 6 Books in your professional field

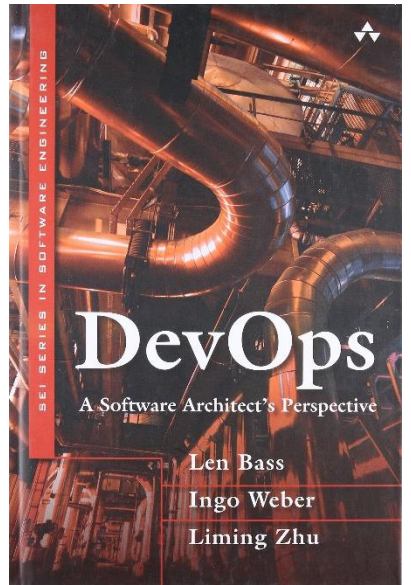
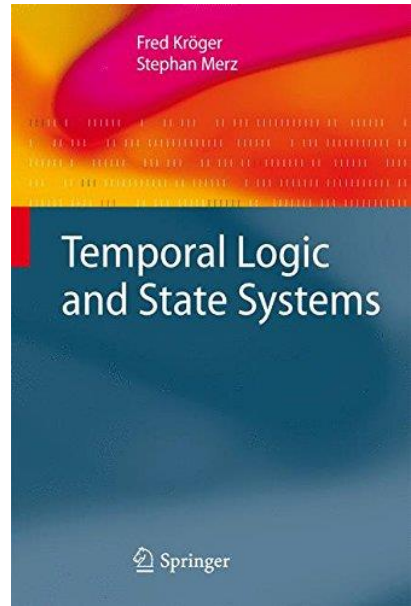
≥ 2 Books in a related field



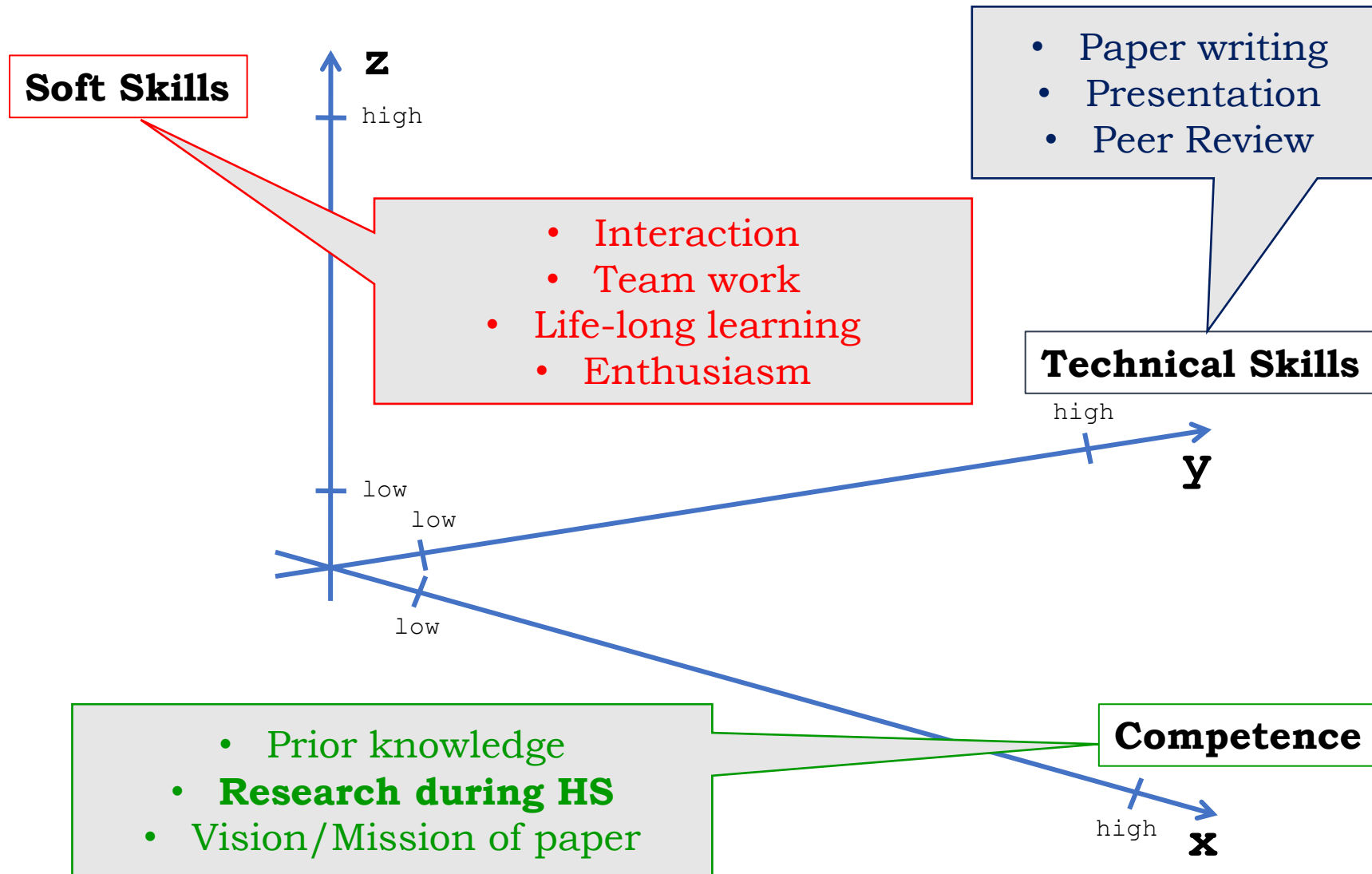
etc.



Irakli Nadareishvili, Ronnie Mitra, Matt McLarty & Mike Amundsen



Skills improved in the Hauptseminar



A strong recommendation from industry:

- ✓ Understand your task assignment clearly and completely
- ✓ Reasonably object if deadline/objective is not realistic

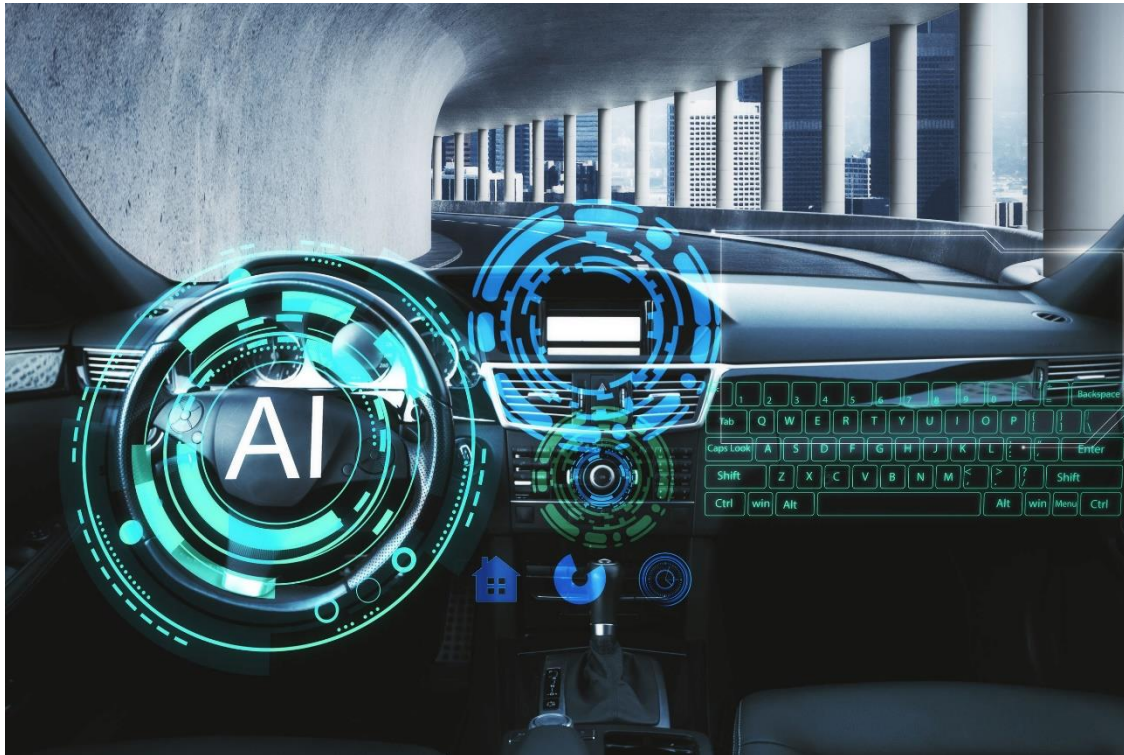


✓ Deliver in-time

✓ Deliver excellent quality



Each and every time excel the expectations !



Content

Part 1

- Papers
- Peer Reviews

Part 2

- Presentations
- Feedback

Part 3

- Final Words

Part 4

- Exams

After the delivery of the final paper + Exams:
... you have earned 3 ECTS Credits

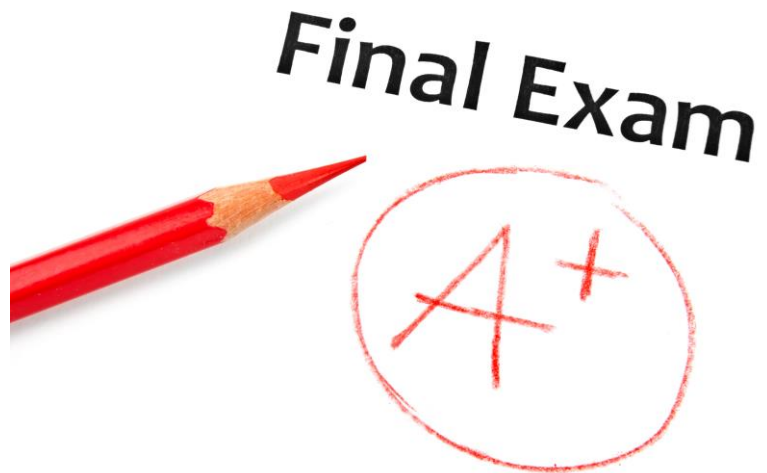


<http://audioto.ru/best/ects-credits-system>

... you will also get a personal assessment and a grade for your work

Grade = $\frac{1}{4}$ * (Paper + Reviews + Presentation + Oral Exam)

Exam Schedule 3rd July 2023



3.7.2023:

15:00 Tom Felber

15:30 Richard Müller

16:00 Franz Glöckner

16:30 Tuan Anh Nguyen

Room APB/INF 2101

The End

It was a pleasure to work with you

All the Best:

- For your professional life
- For your personal life

